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PERSONAL.

Mr. O. W. Hall, of Canton, O., has been appointed City Engineer of Alliance, O.

Mr. R. A. McClanathan, Assistant City Engineer of Niagara Falls, N. Y., has resigned.

Mr. H. E. Terry, City Engineer of Saginaw, Mich., has been displaced by Mr. R. W. Roberts, formerly City Engineer.

Mr. H. P. Greenough has been elected Vice-President of the Rock Island & Peoria Ry., succeeding Mr. H. S. Cable, resigned.

Mr. Leon D. Conklin has been appointed City Engineer of Elmira, N. Y., and Mr. Michael Sullivan Superintendent of Streets.

Mr. C. A. Seley has been appointed Mechanical Engineer of the Chicago, Rock Island & Pacific Ry., with headquarters at Chicago, Ill.

Mr. F. L. Dame has been appointed General Manager of the Union Electric Co., of Dubuque, Ia., succeeding Mr. W. J. Brown, resigned.

Mr. Alexander Maitland, Mem. Am. Soc. C. E., has been appointed Contracting Manager for the American Bridge Co., at Kansas City, Mo.

Mr. Frank G. McIntosh, Civil Engineer, of Bloomingdale, N. J., has accepted a position as an assistant engineer on the Jersey City water plant at Boonton, N. J.

Mr. Leffert L. Buck, M.Am.Soc.C.E., Chief Engineer of the Bridge Department of New York City, has been appointed Consulting Engineer of the Williamsburg Bridge.

Mr. Andrew Gibson has been appointed Superintendent of the Yellowstone Division of the Northern Pacific R. R. with headquarters at Glendive, Mont., succeeding Mr. N. Kline.

Messrs. Wilson Hoge and Benjamin O. Cresap have formed a partnership under the firm name of Hoge & Cresap, to engage in the practice of engineering at Wheeling, Va.

Mr. Andrew H. McNeil, Manager of the McNeal Pipe & Foundry Co., Burlington, N. J., has resigned. Mr. I. Snowden Haines has also severed his connection with that company.

Capt. Chas. S. Riche, Corps of Engineers, U. S. A., in addition to his present duties has been assigned as Engineering Officer of the Department of Texas, with station at Galveston.

Mr. H. M. Deavitt, practical and consulting chemist, whose work is largely for manufacturing establishments, has moved to new offices in the Great Northern Building, Chicago, Ill.

Mr. Howard Elliott has been elected Second Vice-President of the Chicago, Burlington & Quincy Ry., with office in Chicago, having charge of the maintenance and operation of all the lines of the company.

Mr. J. W. Luttrell is appointed Superintendent of the Locomotive and Car Department of the St. Louis, Iron Mountain & Southern Ry. of the Missouri Pacific Ry. System, succeeding Mr. J. C. Potter, resigned.

Mr. C. W. Huntington, Superintendent of the Operating Department of the Iowa Central Ry., has resigned to become General Superintendent of the Central R. R. of New Jersey, with headquarters at Jersey City, N. J.

Mr. R. Godfrey, Civil Engineer, who, until recently had charge of the Engineering Department of the Jersey City Water Supply Co. in Boonton, N. J., will open offices in Paterson and Boonton, to carry on a consulting practice.

Mr. H. S. Cable has resigned as Vice-President and Purchasing Agent of the Rock Island & Peoria Ry., to become General Superintendent of the Chicago, Rock Island & Pacific line west of the Missouri River, with headquarters at Topeka, Kan.

Mr. Daniel Breck, Division Superintendent of the Louisville & Nashville Ry., at Louisville, Ky., has been appointed Superintendent of Terminals at St. Louis, Mo., and is succeeded by Mr. E. E. Snyder, Superintendent of the Memphis Division.

Mr. Eugene S. Sullivan, the newly appointed Water commissioner of Boston, Mass., was for ten years in charge of the Mystic Department of the water system until its abandonment of the Mystic supply by the city of Boston, after which he was retained as Assistant Superintendent of the water-works. He has been for years a member of the New England Water-Works Association.

Mr. W. R. Woodford, General Superintendent of the Baltimore & Ohio R. R. at Pittsburg, Pa., has resigned, and is succeeded by Mr. Louis G. Haas, heretofore Assistant to the General Manager. Mr. H. E. Hale succeeds Mr. E. P. Mobly, as Division Engineer of the Philadelphia Division.

Among the prominent foreign railroad engineers now visiting this country for the purpose of investigating into the methods of American locomotive building are Messrs. James W. Cross and F. C. A. Coventry, of the Great Western Ry. of England; Friedrich Fuchs and G. H. Nicholaus, locomotive engineering experts of the German government railways, and Alfred C. Berry, of the Cape Government railways of Africa.

OBITUARY

Chief Engineer Francis Cadwalder Dade, U. S. N., retired, died in Philadelphia, Pa., on April 30 of heart disease. He entered the navy as an assistant engineer at the age of 20, and was retired in 1889.

ENGINEERING SOCIETIES.

COMING MEETINGS.

AMERICAN INSTITUTE OF MINING ENGINEERS.
May 13. Part II. of annual meeting, Philadelphia, Pa. Secy., R. W. Raymond, 99 John St., New York.
AMERICAN SOCIETY OF CIVIL ENGINEERS.
May 20. Annual convention at Washington, D. C. Secy., C. W. Hunt, 220 W. 57th St., New York.
AMERICAN INSTITUTE OF ELECTRICAL ENGINEERS.
May 20. Annual business meeting at New York. June 18, 19, 20, 21. Summer meeting at Great Barrington, Mass. Secy., R. W. Pope, 26 Cortlandt St., New York.
AMERICAN SOCIETY OF MECHANICAL ENGINEERS.
May 27. Semi-annual meeting at Boston. Secy., F. R. Hutton, 12 W. 31st St., New York.
AMERICAN WATER-WORKS ASSOCIATION.
June 10. Annual convention at Chicago, Ill. Secy., Peter Milne, Bennett Bldg., New York.
AMERICAN SOCIETY OF HEATING AND VENTILATING ENGINEERS.
June 16. Summer meeting at Atlantic City, N. J. Secy., W. M. Mackay, New York.
AMERICAN FOUNDRYMEN'S ASSOCIATION.
June 17. Annual convention at Boston, Mass. Secy., Richard Moldenke, New York.
MASTER CAR BUILDERS' ASSOCIATION.
June 18. Annual convention at Saratoga, N. Y. Secy., J. W. Taylor, Chicago.
AMERICAN RAILWAY MASTER MECHANICS' ASSOCIATION.
June 23. Annual convention at Saratoga, N. Y. Secy., J. W. Taylor, Chicago.

NEW YORK RAILROAD CLUB.—The meeting of May 15, the last of this season, will be also the 30th anniversary of the club's organization. On this occasion, in place of the regular technical discussion, a special treat will be enjoyed by the club, in the form of an illustrated address by Mr. M. N. Forney, on the subject "Reminiscences of Half a Century." Mr. Forney entered practical life just 50 years ago, beginning as a shop apprentice, and throughout his career since has been an active member of his profession, taking part particularly in the development of the locomotive. The address thus cannot fail to be of much interest and it is expected that the attendance at this meeting will tax the capacity of the club's new quarters.—W. B. Yereance, Secy., 168 Montague St., Brooklyn.

TRADE PUBLICATIONS.

(The standard sizes for pamphlets and trade catalogues recommended by all the principal engineering societies of the United States are: 3½ x 6 ins., 6 x 9 ins., and 9 x 12 ins.)

PUMPING ENGINES.—Lennox Machine Co., Marshalltown, Ia. Paper; 5¾ × 8¾ ins.; pp. 4; illustrated.

This simply illustrates the Lennox pump with gas engine, and the pumping head used with this machine.

STEAM SEPARATOR AND GREASE EXTRACTOR.—The Tracy Engineering Co., 151 Fremont St., San Francisco, Cal. Paper; 3½ × 6 ins.; pp. 6; illustrated.

The Sahara steam separator is described and price-list given.

FIRE APPARATUS.—Waterous Engine Works Co., St. Paul, Minn. Paper; 6 × 10 ins.; pp. 48; illustrated.

Gasoline fire engines, hand-hose carts, fire hydrants, hydrant gates, fire-alarm bells and other fire supplies are included in this catalogue.

STREET DRAINAGE GOODS.—The Permanent Mfg. Co., American Trust Bldg., Cleveland, O. Paper; 6 × 8 ins.; pp. 26; illustrated.

Catchbasin covers and sewer inlets are illustrated in this catalogue and their dimensions are given.

PORTLAND CEMENT.—Colorado Portland Cement Co., Denver, Colo. Paper; 4 × 6 ins.; pp. 44; illustrated.

The properties and uses of cement are briefly set forth, and testimonials are given as to the quality of this company's cement, produced at its mill at Portland, Colo.

LIGHT INSPECTION CARS.—Light Inspection Car Co., Hagerstown, Md. Paper; 7 × 5 ins.; pp. 16; illustrated.

These light inspection cars of various types and sizes are made after the designs of Messrs. Hartley and Teeter. The single seated car weighs only 100 lbs., and the two-seated cars 125 lbs. The "points" of these cars especially designed for use on railways are fully set forth, and a list is given of users.

PORTLAND CEMENT.—Bonneville Portland Cement Co., Fidelity Bldg., Philadelphia, Pa. Paper; 10 × 6 ins.; pp. not given; illustrated.

This catalogue consists chiefly of views of concrete construction on the new Roxborough filter beds, at Philadelphia.

STREET DRAINAGE GOODS.—The Duplex Mfg. Co., Cleveland, O. Paper; 8 × 6 ins.; pp. not given; illustrated.

Catchbasin covers and traps, sewer inlets, lamp-hole, monument and manhole covers are included in this catalogue.

HAND SURVEYING INSTRUMENT.—J. C. Sala, 429 Montgomery St., San Francisco, Cal. Paper; 6 × 9½ ins.; pp. 8; illustrated.

The Fred. G. King pocket reconnoissance surveying instrument is a hand instrument, the various uses of which are described.

PUMPS, ETC.—Byron Jackson Machine Works, 625 Sixth St., San Francisco, Cal. Paper; 9½ × 12 ins.; pp. 4; illustrated.

This is an illustrated price-list of centrifugal pumps for different classes of work, with speed table, and a price-list of valves and flanges.

PROPELLER PUMP.—P. K. Wood, 269 North Main St., Los Angeles, Cal. Paper; 4½ × 6¾ ins.; pp. 36; illustrated.

This deep-well pump has spiral blades at intervals on a vertical shaft driven by a belt or by gearing. Tables of capacities and prices are given.

HYDRAULIC MINING MACHINERY.—Joshua Hendy Machine Works, 38 Fremont St., San Francisco, Cal. Paper; 6½ × 10 ins.; pp. 72; illustrated.

The specialties include pipe and nozzles for hydraulic "giants" for excavation, flumes, etc. Also a jet gravel elevator, gravel pump, and jet water-wheel plants.

PUMPS AND ENGINES.—The Machinery & Electrical Co., 351 North Main St., Los Angeles, Cal. Paper; 5 × 7 ins.; pp. 12; illustrated.

The firm manufactures the Climax double-acting pump head and gasoline engines, and the pamphlet shows other machinery for which the company has the agency.

BOOTS.—H. J. Putman & Co., 26 Hennepin Ave., Minneapolis, Minn. Paper; 8½ × 11 ins.; pp. 28; illustrated.

This consists mainly of reproductions of testimonials as to the qualities and advantages of the company's waterproof boots for engineers, surveyors, contractors, hunters and others. Views and price-lists are also given.

PNEUMATIC DRILL.—The Columbus Pneumatic Tool Co., Columbus, O. Boards; 10 × 6¾ ins.; pp. 12; illustrated.

This booklet is devoted to the No. 2 U. & W. Piston Air Drill, a tool intended for locomotive work particularly. It is built to work in very close quarters and possesses other features which are brought out.

GARBAGE CREMATORIES.—The Dixon Garbage Crematory Co., Toledo, O. Paper; 8 × 8 ins.; pp. 40; illustrated.

Illustrated descriptions of several kinds of crematories, including one for utilizing heat, are followed by numerous testimonials from cities where the Dixon furnace is in use.

STEAM BOILERS.—Springfield Boiler & Mfg. Co., Springfield, Ill. Paper; 6 × 9 ins.; pp. 63; illustrated.

The catalogue shows internally and externally fired boilers, vertical boilers, etc., and gives data on joints and boiler settings, rules for care of steam boilers and related matter. Some riveted pipe work, standpipes and tanks are also shown.

SOLAR FURNACE.—Solar Furnace & Power Co., 410 East Fifth St., Los Angeles, Cal. Paper; 3½ × 5 ins.; pp. 15, and sheet 5¾ × 12½ ins.

The company's purpose is to develop Carter's invention for generating heat from the sun's rays by means of reflectors. The pamphlet contains the company's articles of incorporation and by-laws.

WATER SOFTENING AND PURIFYING APPARATUS.—Industrial Water Co., 15 Wall St., New York city. Paper; 6 × 9 ins.; pp. 16; illustrated.

The apparatus made by this company is designed to remove hardness, acidity, oil or sediment from water. The chemical reagents employed are lime and sodium carbonate.

ELECTRIC MOTORS.—Racine Hardware Co., Racine, Wis. Paper; 6 × 9 ins.; pp. 16; illustrated.

Bulletin No. 100 illustrates and describes various types of the Racine vertical automatic engine, arranged for direct connection with a number of well-known generators, and adapted to lighting, storage battery or power service where economy of space and noiseless operation are desirable.

PHOTO-PRINTING.—Keuffel & Esser Co., New York. Paper; 3½ × 5¾ ins.; pp. 24.

Under the title of photo-printing from tracings this firm issues a practical hand-book treating of the whole process. The pamphlet discusses paper suitable for this purpose, the proper printing frames, the processes of printing with various types of paper, and gives price lists for paper, frames, etc.

FARRELL'S PATENT PLANK HOLDERS FOR CONCRETE MOLDS. Thos. C. Farrell, Washington, N. J. 4½ × 7 ins.; pp. 12.

This pamphlet should interest all contractors and engineers engaged in concrete construction for buildings or foundation walls. It describes iron fastenings for holding the planks of concrete molds in position, the system being such that the planks can be removed and used over again as soon as the concrete has set, thus greatly reducing the amount of lumber required. The holders also keep the

planks in line, ensuring a smooth wall, which is not always obtained where concrete forms are built by carpenters in the ordinary way.

WATER-WHEEL GOVERNORS.—The Lombard Governor Co., Boston, Mass. Paper; 9¾ × 6 ins.; pp. 100; illustrated.

This catalogue describes different types of the well-known Lombard governor. The explanation is supplemented by a number of views of installations of these governors, many testimonial letters, and some suggestions and useful information.

GAS ENGINES.—The Alberger Co., Buffalo, N. Y. Paper; 10 × 6¾ ins.; pp. 32; illustrated.

The Buffalo tandem gas engine has two cylinders placed in tandem, both working on the four-stroke cycle, but with the working strokes alternating in the two cylinders. Regulation is produced by varying the quality of the charge. The engine and its parts are handsomely illustrated and fully described.

DRAWING MATERIALS.—Schwencke Kirk & Co., 23 Church St., New York. Paper; 6 × 9 ins.; pp. 160; illustrated.

This well-arranged price-list covers the countless number of instruments, appliances and supplies used in the drafting-room, and it also includes transits, levels, compasses, rods, steel tapes, and the various other instruments used in the field by the engineer and surveyor or by the builder.

PHOTOGRAPHIC MATERIALS.—Rochester Optical Co., Rochester, N. Y. Paper; 6 × 9 ins.; pp. 80; illustrated.

The Premo camera is here described in detail, along with the factory in which it is made, and the illustrations given show the excellent character of its product. The many forms of this camera are noted, described, dimensioned and priced. Then follows a price-list of all the accessories required in photographing, printing, developing, mounting, etc.

SUPERHEATING ATTACHMENT. Power Specialty Co., 126 Liberty St., New York. Paper; 6 × 9 ins.; pp. 32; illustrated.

The Foster superheater is an attachment which may be fitted to any type of boiler. It consists of a series of cast-iron sections, through which the steam produced by the boiler circulates and becomes superheated. Much text matter is given in the catalogue on the subject of economy in the use of superheated steam.

PHOTOGRAPHIC MATERIALS.—Rochester Camera & Supply Co., Rochester, N. Y. Paper; 7 × 8¼ ins.; pp. 80; illustrated.

The first section of this handsome catalogue treats of the Poco camera; describes its peculiar features and gives many examples of its work. Following is a priced detail of varieties, and general equipment, ranging from pocket size to an 8 × 10-in. plate. This list covers all separate parts, developing materials, paper, etc.

ELECTRO-PNEUMATIC BLOCK-SIGNAL SYSTEM: BOSTON ELEVATED R. R.—The Union Switch & Signal Co., Pittsburg, Pa. Paper; 9 × 6 ins.; pp. 43; illustrated.

The successful application of the electro-pneumatic block-signal system to the third-rail electric line of the Boston Elevated R. R., is one of the most interesting installations of signals which has been carried out in recent years. This pamphlet describes and illustrates the installation in great detail and is well worth reading by engineers interested in this class of work.

WIRE ROPE.—The Trenton Iron Co., Trenton, N. J. Paper; 6 × 8⅛ ins.; pp. 64; illustrated.

In this publication Mr. William Hewitt, M. E., describes the application of wire rope to haulage, to shafts, inclined planes, etc. It is a practical treatise written by an expert and by text and illustrations gives much valuable information to those wishing to avail themselves of any of the various systems dealt with. Details are given for track and track appliances, rope engines, grips, hooks, cars, cages, etc., along with useful formulas.

HOUSE WRECKING.—The Chicago House Wrecking Co. Paper; 6 × 9¾ ins.; pp. 40; illustrated.

This company was organized in 1892 for the purchase and dismantling of the Chicago World's Fair buildings; it did the same work for the Chicago Post Office building and the Trans-Mississippi Exposition, and is now engaged in dismantling and disposing of the structures connected with the late Pan-American Exposition of Buffalo. The catalogue lists this latter material and gives quantities, dimensions and prices of a vast amount of building material available for use elsewhere.

CRUSHING AND GRINDING MACHINERY.—Sturtevant Mill Co., Boston, Mass. Paper; 7 × 9 ins.; pp. 64; illustrated.

This catalogue advertises mainly a jaw crusher arranged so that the movable jaw has a vertical rolling action; by this arrangement the rock is reduced to very small size in one operation. This style of crusher is made down to a laboratory size. Centrifugal roll crushers are also shown; further—screens, conveyor belts, "rock emery" mill stones and mills, etc. The information given for the different machines is quite complete, and includes prices.

TRINIDAD ASPHALT PAVEMENTS.—Warner-Quinlan Asphalt Co., Syracuse, N. Y., and 32 Broadway, New York city. Paper; 5 × 7⅝ ins.; pp. 68.

The first portion of this pamphlet is devoted to demonstrating that Trinidad asphalt is the same in origin, physical and chemical properties, whether it is classed as land, lake or overflow asphalt; and, incidentally, we have a general statement of the late struggle over asphalts with the so-called Asphalt Trust, and the contention made above is backed by documents here given. The pamphlet also gives a list of the users of "land" asphalt in the United States.

STEEL-CONCRETE CONSTRUCTION.—R. Baffrey, Manager, The Hennebique Patents. New York, N. Y. Paper; 7 × 10 ins.; pp. 44; illustrated.

The Hennebique system of "ferro-concrete construction" has gained unusual favor in France during the last few years, and engineers will note with interest that a branch office fully equipped to prepare designs and take contracts for steel-concrete work according to this system has been established in the United States. This publication describes and illustrates the Hennebique system and illustrates a large variety of structures in which it has been employed.

BOOK STACK AND SHELVING.—The Snead & Co. Iron Works, Jersey City, N. J. Boards; 14 × 10½ ins.; pp. 36; illustrated.

This publication illustrates and describes in much details the system of metal book shelving, first designed by Mr. Bernard R. Green, Civil Engineer, for the new Congressional Library, and now manufactured in all sizes and forms for general library purposes. A list of some 30 libraries in which the Green shelving is used is given with many half-tone views of interiors, line drawings showing dimensions and construction, and a large amount of descriptive and explanatory text.

ELECTRICAL MACHINERY.—Stanley Electric Mfg. Co., Pittsfield, Mass. Paper; 8 x 10½ ins.; illustrated.

Circular 125 shows standard sizes of condensers, for use with alternating current motors. Circular 126 discusses two new instruments, one called a voltmeter compensator, designed to correct a voltmeter reading at the station to give the pressure at centre of distribution, the other, an instrument called a voltaphone, which automatically indicates, over a telephone line, the per cent. of departure of the line pressure, at the point where the voltaphone is located, from the normal pressure. Prices are given in both circulars.

FILTRATION SANDS AND GRAVELS.—Diamond Rock Sand Co., Millville, N. J. Paper; 5 × 8 ins.; pp. 8.

This company appears to be able to supply sand and gravel of all desired grades of fineness or coarseness for filtration work. It claims as a special advantage of its material that it is nearly 98% silica and contains neither lime nor gravel. It also claims that its "diatom filtration sand" is superior to quartz sand because the former "contains an immense amount of oxygen in its pores and the water passing through them is divided into an infinite number of fine streams," whereas quartz sand "is too hard and impervious for filtration through the grains."

CONSTRUCTION NEWS.

CONDENSED LIST OF CONTRACTS PENDING WITH DATE OF OPENING BIDS.

Bids to be opened.	Work.	Place.	See Eng. News.
May 8.	Street work,	Benton Harbor, Mich.	May 1
	Advertised, Eng. News, May 1.		
May 8.	Bridge,	Brookville, Ind.	May 1
May 8.	Paving, etc.,	Wilkesbarre, Pa.	May 1
May 8.	Bridge repairs,	Zanesville, O.	May 1
May 8.	Jail,	Norwich, N. Y.	May 1
May 8.	Library building,	Columbus, Ind.	Apr. 24
May 8.	Water mains, etc.,	New York, N. Y.	Apr. 24
May 8.	Covered canal,	New Orleans, La.	Apr. 10
	Advertised, Eng. News, Apr. 10 to May 8.		
May 8.	Water-works,	East Jaffrey, N. H.	Apr. 17
	Advertised, Eng. News, Apr. 17 and 24.		
May 9.	School,	Chicago, Ill.	May 1
May 9.	Pumping station, etc.,	Mamaroneck, N. Y.	May 1
	Advertised, Engineering News, May 1.		
May 9.	Reservoir, etc.,	Troy, N. Y.	Apr. 17
	Advertised, Eng. News, Apr. 17 and 24.		
May 8.	Outlet sewer,	Newark, N. J.	Apr. 17
	Advertised, Eng. News, Apr. 17 to May 8.		
May 9.	Light-house supplies,	Tompkinsville, N. Y.	Apr. 17
	Advertised, Eng. News, Apr. 17 to May 15.		
May 9.	Garbage crematory,	New York, N. Y.	Apr. 24
	Advertised, Eng. News, Apr. 24 and May 1.		
May 9.	Fire hose,	New York, N. Y.	May 8
May 9.	Wharf extension,	Ottawa, Ont.	May 8
May 9.	County bridges,	Sherbrooke, N. Dak.	May 8
May 10.	Street work,	Seattle, Wash.	May 8
May 10.	Pontoon bridge,	New York, N. Y.	May 8
May 10.	Arch,	Terre Haute, Ind.	May 8
May 10.	Railway work (C. P. Ry.),	Montreal, Que.	May 1
	Advertised, Engineering News, May 1.		
May 10.	Street work,	Hillsdale, N. J.	May 1
	Advertised, Eng. News, May 1 and 8.		
May 10.	Brick paving, etc.,	East Cleveland, O.	May 1
May 10.	Water-works,	Dover, N. J.	Apr. 24
May 10.	School,	Bridgetown, N. S.	Apr. 24
May 10.	Sanitary sewer,	Mansfield, O.	Apr. 24
May 10.	Metal work, material, etc.,	Baltimore	Apr. 17
	Advertised, Engineering News, Apr. 17.		
May 12.	High-level sewer,	Boston, Mass.	Apr. 17
	Advertised, Engineering News, Apr. 17.		
May 12.	Roads, etc.,	New London, Conn.	Apr. 17
May 12.	Paving etc.,	Jacksonville, Fla.	Apr. 17
May 12.	Railway,	Portugese West Africa	Feb. 13
May 12.	Water-works,	Lexington, Mo.	Mar. 27
	Advertised, Eng. News, Mar. 27 and Apr. 3.		
May 12.	Wharf, etc.,	Mullett Key, Fla.	Apr. 24
May 12.	Building work,	Omaha, Neb.	Apr 24
May 12.	Sewer system,	Rockwell City, Ia	May 1
May 12.	Water-works,	Caldwell, N. J.	May 1
	Advertised, Eng. News, May 1 and 8.		
May 12.	Bridge work,	Goshen, N. Y.	May 1
	Advertised, Engineering News, May 1.		
May 12.	Paving,	Toledo, O.	May 1
May 12.	Brick paving,	Fairfield, Ia.	May 1
May 12.	Water-works, etc.,	Fort Revere, Mass.	May 1
May 12.	Water tank, etc.,	Fort D.A. Russell, Wyo.	Apr. 24
May 12.	Sewers,	Mason City, Ia.	May 8
May 12.	Bridges,	Newark, N. J.	May 8
May 12.	Paving material,	Cambridge, Mass.	May 8
May 12.	Bridges,	Brookings, S. Dak.	May 8
May 12.	Bridges,	Salem, S. Dak.	May 8
May 12.	Jail,	Pell City, Ala.	May 8
May 12.	Castings,	Washington, D. C.	May 8
May 12.	Sprinkling trucks,	New York N. Y.	May 8
May 12.	Bridge bonds,	Grand Rapids, Mich.	May 8
May 13.	Steel bridges,	St. Charles, Mo.	May 8
May 13.	Lumber,	New Orleans, La.	May 8
May 13.	Water pipe, etc.,	Hempstead, N. Y.	May 1
	Advertised, Engineering News, May		
May 13.	Highway bridge,	Crookston, Minn.	Apr. 24
May 13.	Court house,	Orange City, Ia.	Apr. 24
May 13.	Dredging,	Wheeling, W. Va.	Apr. 17
	Advertised, Eng. News, Apr. 17 to		17
May 13.	College building,	Grand Forks, N. D.	May 1
May 14.	Water pipe, etc.,	Monaca, Pa.	May 1
	Advertised, Engineering News, May		
May 14.	Wharf,	Fort Getty, S.C.	Apr. 17
	Advertised, Eng. News, Apr. 17 to M		2
May 14.	Building,	Annapolis, Md.	Apr. 10
May 14.	Jail,	Great Bend, Kan.	Apr. 24
May 14.	Building work,	Cleveland, O.	Apr. 24
May 14.	Lumber,	Toledo, Ore.	May 8
May 14.	Bridges,	Toledo, Ore.	May 8
May 14.	Sewers,	Brooklyn, N. Y.	May 8
May 14.	Paving,	Brooklyn, N. Y.	May 8
May 14.	Road work,	Prattville, Ala.	May 8
May 14.	Brick paving,	Fowler, Ind.	May 8
May 14.	Bridge,	Cleveland, O.	May 8
May 14.	Copper cables, etc.,	Chicago, Ill.	May 8
May 14.	Macadamizing,	Camden, N. J.	May 8
	Advertised, Engineering News, May 8		
May 14.	Pipe sewer,	Kearney, N. J.	May 8
May 15.	Portland cement,	New York, N. Y.	May 8
May 15.	Water-works,	Prairie du Chien, Wis.	May 8
May 15.	Bridges,	New Castle, Ind.	May 8
May 15.	Culvert,	Benton Harbor, Mich.	May 8
May 15.	Bridges,	Grafton, N. Dak.	May 8
May 15.	Bridges,	Petersburg, N. Dak.	May 8
May 15.	Court house,	Blackshear, Ga.	Apr. 24
May 15.	School,	West Homestead, Pa.	May 8
May 15.	Jail,	Marysville, Cal.	Apr. 24
May 15.	Water bonds, etc.,	Springhill, N. S.	Apr. 24
May 15.	Intercepting sewer,	Cleveland, O.	Apr. 24
May 15.	Engine equipment, etc.,	Washington, D. C.	Apr. 24
May 15.	Sewers,	Amsterdam, N. Y.	May 1
	Advertised, Engineering News, May 1		
May 15.	Electric railway,	Sault Ste. Marie, Ont.	May 1
	Advertised, Engineering News, May 1		
May 15.	Outlet sewer,	Newark, N. J.	May 1
	Advertised, Eng. News, May 1 and 8.		
May 16.	Brick sewer,	Bridgeport, Conn.	May 8
May 16.	Pumping engines (2),	Allegheny, Pa.	May 8
May 16.	Jail,	Constantine Mich.	May 8
May 16.	Bridges (4),	Mt. Vernon, Ind.	May 8
May 16.	Chimney,	Cincinnati, O.	May 1
	Advertised, Engineering News, May 1		
May 16.	Water-works,	Aurora, Ind.	May 1
	Advertised, Engineering News, May 1.		
May 16.	School,	Wooster, O.	Apr. 24
May 17.	Riprap work,	Dayton, O.	Apr. 24
May 17.	Intercepting sewer,	Washington, D. C.	Apr. 24
	Advertised, Engineering News, Apr. 24.		
May 17.	Building,	Fort Smith, Ark.	Apr. 24
May 17.	Buildings, etc.,	Tampa, Fla.	Apr. 10
May 17.	Paving,	Youngstown, O.	May 1
May 19.	Sewers,	Cambridge Springs, Pa.	May 1
May 19.	Rails, Locomotives, etc.,	Japan.	Apr. 24
May 19.	Dredging,	Detroit, Mich.	Apr. 24
	Advertised, Eng. News, Apr. 24 to May 22		
May 19.	Lock houses, dam, etc.,	Cincinnati, O.	Apr. 24
May 19.	Paving,	Benton Harbor, Mich.	May 8
	Advertised, Engineering News, May 8.		
May 19.	Bridge work,	Columbus, O.	May 8
May 19.	Pipe sewer,	Ilion, N. Y.	May 8
May 20.	Trunk sewers,	Birmingham, Ala.	Apr. 24
	Advertised, Eng. News, Apr. 24 to May 22		
May 20.	Street railway work,	Boston, Mass.	May 1
	Advertised, Engineering News, May 1.		
May 20.	Water-works,	Fort Plain, N. Y.	Apr. 24
	Advertised, Eng. News, Apr. 24 and May 1		
May 20.	Road work,	Jacksboro, Tenn.	May 1
	Advertised, Eng. News, May 1 and 8.		
May 20.	Hospital,	Miami, O.	May 1
May 21.	Sewers,	Cincinnati, O.	May 1
May 21.	Macadamizing, etc.,	Cincinnati, O.	May 1
May 21.	Flagging,	Hasbrouck Heights, N. J.	Apr. 24
	Advertised, Eng. News, Apr. 24 to May 22.		
May 21.	Paving, etc.,	Ann Arbor, Mich.	May 8
	Advertised, Engineering News, May 8.		
May 21.	Church,	Parkston, S. Dak.	May 8
May 21.	Pump shaft, etc.,	Elgin, Ill.	May 8
May 21.	Court house,	El Reno, Okla.	May 8
May 21.	Crib work,	Buffalo, N. Y.	May 8
May 21.	Sewer work, etc.,	Brunswick, Me.	May 8
	Advertised, Eng. News, May 8 and 15.		
May 22.	Water-works, etc.,	Ft. Des Moines, Ia.	May 8
May 22.	Electric plant, etc.,	Rushford, Minn.	May 8
	Advertised, Engineering News, May 8.		
May 22.	Jail,	Grantsburg, Wis.	Apr. 24
May 22.	Outlet sewer,	Newark, N. J.	May 1
	Advertised, Eng. News, May 1 to 22.		
May 22.	Highway bridge,	Red Wing, Minn.	May 1
May 22.	Bridges,	Columbus, Ga.	May 1
May 23.	Iron wharves,	San Francisco, Cal.	May 1
May 23.	Extending elect. plant,	Nat. Mil. Home, O.	May 8
May 23.	Fire station,	Woonsocket, R. I.	May 8
May 24.	Electric crane,	Washington, D. C.	Apr. 24
	Advertised, Engineering News, Apr. 24.		
May 24.	Building,	Vallejo, Cal.	Apr. 17
May 25.	Water-works,	De Soto, Fla.	May 8
	Advertised, Eng. News, May 8 to 22.		
May 26.	Dam, bridge, plant, etc.,	Peterboro, Ont.	May 8
	Advertised, Engineering News, May 8.		
May 26.	Post office,	Freeport, Ill.	Apr. 17
May 27.	Sewers,	Anderson, S. C.	May 1
	Advertised, Eng. News, May 1 and 8.		
May 27.	Main sewer,	Cleveland, O.	May 8
May 27.	Paving,	Cincinnati, O.	May 8
May 27.	Street work,	Midland, Mich.	May 8
	Advertised, Engineering News, May 8.		
May 27.	P. O. building,	Creston, Ia.	May 8
May 28.	Paving, etc.,	Hoboken, N. J.	May 8
May 28.	Steel bridge,	Pipestone, Man.	May 8
May 28.	Post office,	Fitchburg, Mass.	May 1
May 29.	Main sewer,	Cleveland, O.	May 8
	Advertised, Eng. News, May 8 and 15.		
May 31.	Canal,	Harvey, La.	May 8
	Advertised, Eng. News, May 8 to June 5.		
May 31.	Distributing boxes, (w.-w.),	Washington.	May 8
	Advertised, Engineering News, May 8.		
May 31.	Wharf,	Hilo, H. I.	Apr. 10
May 31.	Sidewalk repair,	Cincinnati, O.	Apr. 24
May 31.	Portland cement,	Cincinnati O.	May 1
	Advertised, Eng. News, May 1 to 29.		
June 2.	Building,	Columbus, Ga.	May 8
June 2.	Laboratory,	Washington, D. C.	May 8
June 7.	Water pipe specials,	Washington, D. C.	May 8
	Advertised, Engineering News, May 8.		
June 7.	Coal and ash pockets,	Washington, D. C.	May 8
	Advertised, Engineering News, May 8.		
June 10.	Mint,	Denver, Colo.	May 8
June 11.	Sand washers,	Calcutta, India	Apr. 17
June 23.	Jail,	Jamestown, Ky.	May 8

July 1. Power plant, Los Angeles, Cal. ..... Mar. 20
June 2. Electric plant franchise, Flemingsburg, Ky. May 1
June 7. Building, Vallejo, Cal. ..... May 1
Sept. 1. Bridge plans, St. Petersburg, Russia..... Sept. 19
Advertised, Eng. News, Sept. 19 to Oct. 3.
No date. Harbor work, Port Adelaide, S. Australia. Apr. 24
" Wharf, etc., Three Rivers, Que. ..... May 1
" Concrete work, (sewers), Saratoga, N. Y. May 1
Advertised, Engineering News, May 1.

RAILWAYS.

BIRMINGHAM, SELMA & NEW ORLEANS.—John B. Lindsey, Engr., Selma, Ala., writes us that the 20-mile extension from Thomaston to Mytlewood, Ala., will be completed by June 1. The Centre Mills Division of 7½ miles is located and work is now under way. The Catoba River Division, 2½ miles, is also under construction. The contractors are Dunn & Lallande, Birmingham, Ala.; J. M. Sullivan, Montgomery, and the Alabama Construction Co., Anniston. The Orrville Division of five miles was completed last January. R. Montfort is Ch. Engr., Louisville, Ky.

CACHE RIVER R. R.—The charter for this proposed road from Newport, Ark., into Missouri, has been granted. The charter calls for 80 miles of road. From Sedgwick to Gage Post Office, 20 miles, the line is already built. The proposed northern terminus will be at a point on the Missouri state line.

CANADA EASTERN.—A company is reported being formed for the purpose of purchasing this road, running between Fredericton, N. B., and the Miramichi district. It is the purpose of those interested to expend about $1,250,000 for the property and for improvements.

CANADIAN PACIFIC.—A bill has passed the legislature authorizing the company to build a line from New Westminster to Vancouver, B. C.

CANE BELT, R. R.—A branch line from near Eagle Lake, Tex., to the new town of Garwood, a distance of 20 miles, will be built by this company, according to reports. W. T. Eldridge is Vice-Pres. and Gen. Mgr., Eagle Lake, Tex.

CAPE GIRARDEAU & THEBES BRIDGE TERMINAL R. R.—This company was chartered in Missouri on April 24 for the purpose of building a connection on Houck's Missouri & Arkansas R. R., near Freusdorf Junction to a point opposite Thebes on the bank of the Mississippi River, to be three miles in length. The capital stock is $100,000. J. H. Hawkins, T. A. Proctor and F. F. Lincoln, Cape Girardeau, Mo., are directors.

CENTRAL NEW ENGLAND.—The options on the right of way for the branch road from East Granby to Windsor Locks are now being taken up by the company. It is expected that preliminary arrangements will be made so as to begin the construction at an early date. C. H. Ewing is Ch. Engr., Hartford, Conn.

CHARLOTTE, MONROE & COLUMBIA.—Ernest Williams, Pres. Lynchburg, Va., writes us that the company is now operating 12 miles of road and will complete the remainder of its road during the year. The completed road will be 40 miles in length and will run from McBee, S. C., to Monroe and Charlotte, N. C. Surveys are made and rights of way obtained. J. H. Diggs is Ch. Engr., McBee, S. C.

CHESAPEAKE & OHIO.—Vice-President Axtell has stated that the extension up the Big Sandy River will be built. The extension will be run from Whitehouse up to the Breaks of Sandy, a distance of some 75 miles. F. W. Scarborough is Engr., M. of W., Richmond, Va.

CHICAGO GREAT WESTERN.—Bids are reported to have been called for the construction of a track between Oelwein and Waverly, Ia., and for reducing grades and straightening and eliminating curves on the line already laid from Hampton to Waverly. It is thought that an appreciable saving will be made in the distance between Chicago and Omaha by those improvements, which will cost in the neighborhood of $600,000. F. R. Coates is Ch. Engr., St. Paul, Minn.

CHICAGO, MILWAUKEE & ST. PAUL.—It is reported that a survey for a line from Conesville, Ia., to Cedar Rapids, is now under way. The work is only preliminary for the purpose of preparing estimates.——The directors have decided to make extensive improvements at the West Milwaukee, Wis., shops, costing about $800,000. Work on the enlargement will be started this summer and will take two years for completion. It is announced that a large part of the main line from Milwaukee to La Crosse, Wis., will be double tracked. D. J. Whittemore is Ch. Engr., Chicago, Ill.

CHICAGO, MILWAUKEE & ST. PAUL.—A contract is reported to have been let to D. Grant & Co. for the construction of a 40-mile extension of this road from Eureka, S. Dak., to Linton, N. Dak. Arrangements are being made by the contractors for beginning the work.

CHICAGO, ROCK ISLAND & TEXAS.—J. S. Peter, Ch. Engr., Ft. Worth, Tex., informs us that grading is progressing along the line from Jacksboro to Grahasa, Tex., a distance of 26 miles. The work is being done by the Bethune Craney Construction Co. Surveys have been completed and the rights of way secured.

COLUMBIA RIVER & NORTHERN.—Bids are wanted by this company until May 10 for the grading and bridging of that portion of the road from Goldendale, Wash., to the head of Swale Canyon, a distance of 15 miles. Emery Oliver is Ch. Engr., Portland, Ore.

DENVER, NORTHWESTERN & PACIFIC.—The officials of this company are reported to have announced that the $21,000,000 estimated to be needed for the construction of the short line by this company between Denver and Salt Lake City, had practically all been subscribed. The new line shortens the distance by rail between those points by 240 miles. David H. Moffat is interested.

DENVER & NORTHWESTERN.—Surveys have been made for a line from Rollinsville to Hot Sulphur Springs, Colo. An auxiliary company will be formed to construct the new line. J. T. J. Milner is Ch. Engr., Denver, Colo.

GASKE & WESTERN.—A bill to incorporate this road has been introduced in the Parliament. The new company proposes to construct a line from Fraserville on the Intercolonial to Metapedia. The new line will be about 116 miles in length, saving some 60 miles between those points. O. E. Talbot, Quebec; J. A. Ross, St. Flavid, and J. J. Perrin, Montreal, Que., are interested.

DENVER & RIO GRANDE.—Johnston Bros., contractors, Oklahoma City, Okla., want bids for building 50 miles of road on the extension from Brownwood, Tex., to Brady, in five-mile sections.

GRANVILLE & POULTNEY.—C. B. Story, Hoosick Falls, N. Y., has the contract for the surveys and construction of this road, to run from Granville, N. Y., to Wells, Pawlet and Poultney, Vt., a distance of 12 miles. Surveys are about completed and the rights of way are now being secured. Mr. Story writes that he will take stock and bonds in payment for the work, and would like to communicate with parties who can assist in the construction and the financing. Wm. Nathaniel, Poultney, Vt., is Pres.

GREAT CENTRAL.—Articles of incorporation have been filed by this company in Oregon with a capital stock of $10,000,000. The proposed road will have as its eastern terminus Salt Lake City, Utah, and will run through Utah, Idaho and Oregon to Coos Bay, on the Pacific Coast. T. Thorburn Ross, John K. Koluck and John E. Atchison, Portland, Ore., are incorporators.

GREAT NORTHERN.—Alex. Stewart, Res. Engr., Spokane, Wash., is reported to have stated as follows on April 26 regarding the construction of a line of double track between Everett, Wash., and Ballard: "The surveys have been completed and a force of men will be put at work at once. The additional track is to be laid between the present one and the bay, while the old track will be straightened out and changed at various places. The object of the extra track is to obviate the difficulty which has been experienced in the past on account of slides, and to afford the necessary transfer facilities for freight between the Everett terminal yards and Seattle. It will require a year for the completion of the work."

HOCKING VALLEY.—F. B. Sheldon, Ch. Engr., Columbus, O., has announced that work on the double tracking of the gap between Lancaster, O., and Logan, about 14 miles, will begin soon.

INTERNATIONAL & GREAT NORTHERN.—This company has filed an amended charter in Texas, which provides for several extensions in different parts of the state, aggregating 317 miles. The extensions provided for are a branch from Navasota to Oakwoods, 90 miles, through new country; from Oakwoods to Waxahatchie, 80 miles, forming a connection with the Fort Worth line; from Italy to Dallas, 45 miles, a branch of the Forth Worth extension now being built; from Neches to Coltharp, 40 miles; from Palestine to Rusk, 32 miles, and from East Columbia to Bay City, 30 miles. This branch will run through the country where the state is developing the sugar industry. We are informed that preliminary surveys have been made for the greater part of the above-chartered mileage and construction will be taken up on some of them at an early date. Work is progressing rapidly on the extension from Waco, Tex., to Ft. Worth, about 96 miles. The line from Spring to Navasota will be opened to traffic on May 1st, and the line from Waco to Ft. Worth about Sept. 1. Surveys are being made from Navasota to Madisonville and from near Italy to Dallas and contracts will be let shortly. The extension from Houston via Beaumont and Orange to the Sabine River (in Texas) will shortly be chartered under the title of the Houston, Beaumont & New Orleans Ry. It is stated that the line will be extended from the Sabine River to Baton Rouge Junction or direct to New Orleans. This extension will be chartered by the International & Great Northern directorate in Texas. T. D. Trammel is Ch. Engr., Palestine, Tex.

JAMESTOWN, YORKTOWN & OLD POINT.—R. T. Peirce, Jr., Civil Engr., 209 27th St., Newport News, Va., informs us that he has completed the location survey of the Jamestown, Yorktown & Old Point Ry., and that everything is in readiness for construction. Work may begin this month. The firm of Alsop & Peirce, contractors, of Newport News, were erroneously reported in our last issue to have completed the surveys, when Mr. Peirce should have been credited with the work, the firm being contractors only.

KANSAS CITY, ST. JOSEPH & COUNCIL BLUFFS.—It is stated that a double track from St. Joseph to Rulo, Neb., a distance of 45 miles, will be built by this company. G. M. Hohl is Supt., St. Joseph, Mo.

LAKE SHORE & MICHIGAN SOUTHERN.—An extension from West Seneca, N. Y., to Lake View. It is expected that work will be started in the near future. E. A. Handy is Ch. Engr., Cleveland, O.

MANITOBA & NORTHWESTERN.—The company's bill for an extension of time for the completion of an extension has been passed by the Senate on the promise of the Canadian Pacific, which company controls the charter, that 35 miles shall be built this year.

MICHIGAN CENTRAL.—The contract for building the second track between Albion, Mich., and Marshall has been let to W. E. Tench & Co., Detroit, Mich. Operations will be started at once, with 100 teams.

MILWAUKEE, BENTON HARBOR & COLUMBUS.—The officials of this company have decided to extend the line south from Buchanan to South Bend, Mich., as soon as possible. D. H. Patterson is Gen. Mgr., Benton Harbor, Mich.

MISSOURI, KANSAS & TEXAS.—F. P. Kimzer & Son, contractors, of Chicago and Terre Haute, Ind., are reported to have received the contract for the construction of 235 miles of railway in Oklahoma. The new line will be an extension of this road, and will cost in the neighborhood of $2,000,000.

NEW YORK & MOHAWK VALLEY.—Incorporated in New York with a capital stock of $300,000 to construct and operate a steam railway from Fort Plain to Cooperstown. Geo. W. Nack, Harry M. Shaw, New York, and Robert E. Farley, White Plains, N. Y., are incorporators.

NOVINGER & SOUTHERN.—A charter has been issued to this company in Missouri with a capital stock of $100,000. The road is to extend from the Quincy, Omaha & Kansas City road at Novinger to Peerer, about 10 miles. W. G. Brinson, Chicago; E. W. Collins, and W. J. Stoneburner, Kansas City, Mo., are incorporators.

ORANGE & NORTHWESTERN.—An extension of this line from Buna to Lufkin, Tex., is to be made. Application has been made to the Railroad Commission of Texas for permission to issue bonds for the extension, and Chief Engineer Thompson of the commission has recommended that the bonds be issued to the extent of $23,000 per mile. The extension will be 100 miles in length. J. W. Maxcy is Ch. Engr., Orange, Tex.

OREGON & PACIFIC R. R. CONSTRUCTION CO.—T. W. M. Draper, Ch. Engr., Mills Bldg., San Francisco, Cal., informs us that surveys are now being made for the line to be built by this company from Grant's Pass, Ore., via Waldo, to Crescent City, Cal. The rights of way and construction capital have been secured. Contracts will be let this fall. The line will be about 90 miles long. John Barth is Pres., Milwaukee, Wis.

PENNSYLVANIA R. R.—The officials of this company are reported to have definitely decided on improvements in Pittsburg, Pa., that will cost between $4,000,000 and $5,000,000. It is stated that a new freight terminal will be built on the property now being acquired in the 23d Ward. The property will cost between $1,000,000 and $2,000,000, and the company will expend an additional $3,000,000 in making the necessary improvements.

ST. LOUIS & SAN FRANCISCO.—Frank P. Read, Ch. Engr. for Johnston Bros., railroad contractors, Roe Bldg., St. Louis, Mo., writes us that the report in our issue of May 1, stating that his firm had received the award for constructing a line from St. Louis to New Orleans, La., to be built by this company, was erroneous. Mr. Read states that the contractors have a contract for building the St. Louis, Memphis & Southeastern R. R. from a point near St. Louis to Paw Paw Junction, Mo., and that last week he made a trip to New Orleans to figure on the construction of an electric railway. The correspondent who sent us the information contained in our last issue probably took the above instances together and formed the conclusion set forth in the note.

SOUTHERN PACIFIC.—A corps of surveyors have just completed the survey for the new tunnel through the Sierra Mountains, which will be five miles and 800 ft. in length, according to reports. It will eliminate nearly 1,000 ft. of grade; and will reduce the length of the snow-sheds 28 miles.——It is reported that the company has contracted for the construction of 72 steel tanks for the storage of oil for fuel. Each tank will have a capacity of 50,000 barrels. Many are to be located between Los Angeles and Ashland, Ore., but the majority of them will be on the Texas lines. W. Hood is Ch. Engr., San Francisco, Cal.

SOUTHERN PACIFIC.—It is announced that this company will build 57 miles of track between Benicia and Sacramento, Cal., necessary to give a double track from Oakland to Sacramento. Preliminary arrangements are now being made for beginning the work. W. Hood is Ch. Engr., San Francisco, Cal.

SOUTHERN PACIFIC.—Reports from Utah state that this company has received bids at its office in San Francisco, Cal., for grading that portion of the Lucin cutoff from Lucin to the west shore of Salt Lake, a distance of about 60 miles. The work will require the removal of about 1,250,000 cu. yds. of material and will cost approximately $350,000. W. Hood is Ch. Engr., San Francisco.

SUMPTER VALLEY R. R.—Joseph A. West, Ch. Engr., Baker City, Ore., has started the survey for the extension of the road to Burns. It is believed that the construction will be started at once.

VALLEJO, BENECIA & NAPA VALLEY.—This company has been incorporated with a capital stock of $500,000 to build a line of railway from Benecia to Vallejo, Cal., thence to Napa and to Lakeport. W. Botsford, C. Laux and John Cross, all of Los Angeles, Cal., are directors.

WASHINGTON NORTHERN.—C. E. Smith, Washington, Ga., writes us that charter for this road has been obtained but the organization has not yet been effected. All arrangements are made for the construction. The line will be 30 miles long, running from Washington, Pa., to Elberton.

WESTERN ILLINOIS.—The charter of this road has been filed in Illinois. The road will pass through Knox, Stark, Marshall and Putnam counties, Ill., running from Dahinda to McNabb, some 75 or 80 miles. The capital stock is placed at $100,000. Surveys have been made through Knox county. G. C. Stebbins, Marseilles; W. L. Lopperby, Chicago; W. C. Calkins, Galesburg, Ill., are incorporators.

WESTERN NEW YORK & PENNSYLVANIA.—Justice Childs has appointed a commission to condemn land in West Seneca, N. Y., for the terminal in the vicinity of the steel plant.

WHEELING & LAKE ERIE.—Bids were received by Chief Engineer Newhall at Cleveland, O., during the week of April 25, for the remaining work on the extension from Adena to Bellaire, comprising two sections, one seven miles long, extending from the south end of the St. Clairsville tunnel to the connecting point with the B. & O., the other four miles in length, running between Maryland and Ct. Clairsville. The survey has been made through to Bellaire.

WHIPPANY RIVER R. R.—Surveyors are now in the field and the rights of way are being secured for an extension of this line from Whippany to a connection with the Erie R. R. at Essex Fells. The distance is seven miles. R. W. McEwan is Supt. and Engr., Morristown, N. J.

STREET AND ELECTRIC RAILWAYS.

AUBURN, ME.—The council has granted a franchise to the Lewiston, Brunswick & Bath St. R. R. for an extension of its present line, to run around Goff Hill.

NASHUA, N. H.—The Nashua & Pepperell St. Ry. has filed articles of incorporation with a capital stock of $50,000. Wallace D. Lowell, Newton; A. W. Dean, Nashua, and G. F. Marshall, Malden, Mass., are directors of the new company.

NEWPORT, N. H.—F. A. Rawson, of this place, informs us that surveys have been made for the line of the Newport & Sunapee St. Ry., to run between those points, a distance of seven miles, and rights of way are obtained. The capital stock is subscribed. George A. Fairbanks, Newport, is Pres.

BOSTON, MASS.—The Old Colony St. Ry. Co. is to make an addition to the Fall River power station. The building is to be enlarged, a new engine and generator will be installed and the steam and water piping thoroughly overhauled. Plans and specifications have been prepared by the Electrical Engineer, 14 Kilby St., Boston.

NORTON, MASS.—We are informed that the preliminary work only on the surveys for the line of the Brockton, Taunton & Attleboro St. Ry. have been made. It is expected to let contracts before summer. The projected line will be 15 miles long. The construction capital is provided for.

ENFIELD, CONN.—The selectmen of this town have granted the Somers & Enfield Electric Ry. a right to construct a line from this place to Somers.

BALDWINSVILLE, N. Y.—Reports state that the Baldwinsville & Syracuse Lakeside road has been purchased by Philadelphia capitalists and will be extended by the new owners to Fulton and Oswego. It is the intention of extending the line through the towns of Lysander, Meridian and Cato to Walcott. The capital stock will be increased to $2,000,000.

BUFFALO, N. Y.—S. S. Bullis, Olean, having been granted the privilege of mortgaging his Attica & Arcade R. R., will continue the line to Buffalo this season. It is to traverse Buffalo Valley from North Java to Buffalo, 32 miles, and the entire line, old and new, will be equipped with electricity. Freight as well as passengers will be carried. The road is narrow gage.

BUFFALO, N. Y.—The Buffalo & Williamsville Electric Ry. has purchased land in Bergen, N. Y., and, it is expected, will begin work in a short time on an extension of its line to Rochester by way of Batavia. Chief Engineer Sikes has recently made surveys along the Byron road, east of Batavia.

CORNING, N. Y.—H. A. Clark, Secy. Tuscarora Valley R. R., Corning, writes that surveys have been completed for the line to run from Addison to Woodhull and Jasper,

having a length of 19 miles. The rights of way are not entirely secured, and it is not decided when contracts will be let.

ROCHESTER, N. Y.—Le Grand Brown, Ch. Engr. Rochester Electric Ry., informs us that nothing has been done towards constructing the proposed extension from Charlotte to Manitou Beach, except making surveys.

WHITE PLAINS, N. Y.—Applications have been made by the Westchester Traction Co. for franchises for building a system of street railways in the towns of Harrison and Rye. The new corporation will build a system of trolley roads aggregating some 50 miles. Among the lines proposed is one from Danbury, Conn., to Golden's Bridge, Bedford and Mount Kisco, and from there to White Plains. It intends to parallel the New Haven R. R. through Mount Vernon, New Rochelle, Larchmont, Mamaroneck, Rye and Portchester. The company is also surveying for a road from Mount Vernon to City Island on the Sound. The company has recently filed a mortgage for $1,500,000 to obtain the necessary funds.

NEW BRUNSWICK, N. J.—The engineers of the New Brunswick & Trenton Ry. are surveying between this city and Metuchen for a route for a road which is to connect New York and Philadelphia.

PITTSBURG, PA.—The Homestead & Mifflin St. Ry. Co. has begun the construction of a line from Homestead to Lincoln Place, in Mifflin township, a distance of 3¼ miles. It will cost $100,000 and is expected to be in operation by July 1. A. C. Hough is Ch. Engr.

HAGERSTOWN, MD.—Chambers M. Craig, C. E., writes that at the meeting of the incorporators of the Hagerstown, Smithsburg & Waynesboro Electric R. R. on April 18, Lewis T. Bryon was elected President and action was taken to hasten the commencement of the construction of the road, which will be 18½ miles in length. Mr. Craig is a director of the new company. Address Alex. Neil, Jr., Hagerstown, for further particulars.

MONTGOMERY, ALA.—Application will be made to the council by the Montgomery St. Ry. Co. for a franchise for the extension of its line to the city limits.

NATCHEZ, MISS.—The Natchez St. Car Co. has decided to build three miles of track in order to reach Ball Park and the Fair Grounds. E. H. Jackson is Secy. and Gen. Mgr.

HOPKINSVILLE, KY.—It is reported that Eastern capitalists are ready to build an electric railway from Clarksville, Tenn., through Hopkinsville to the Christian county coal mines. T. J. McReynolds, Geo. D. Dalton and J. T. Edmunds have been appointed by the citizens to lay the matter before the Commercial Club to get the sanction of that body.

LOUISVILLE, KY.—The formation of the Louisville & Mount Washington Electric Ry. has been effected and articles of incorporation drawn up. The company will be capitalized at $10,000, which will later be increased to $400,000. The surveys, in charge of Chas. Fiske, Jr., of Pittsburg, Pa., will be completed soon and the rights will be taken when that work is finished. A. S. Rice, Cynthiana, Ky.; Younger Alexander, Pres. Lexington & Georgetown Ry., Lexington; N. S. Keith, Cincinnati, O., and C. C. Tennis, Pres. Tennis Construction Co., Pittsburg, are incorporators.

CLEVELAND, O.—The Lake Shore Electric Ry., running between this city and Toledo, is to be improved to the extent of $292,730. The issuance of $292,730 in bonds has been approved. R. E. Danforth is Gen. Mgr.

LIMA, O.—The Lima Electric Ry. & Light Co. will expend $300,000 in improvements to its property in this city.

MIDDLETOWN, O.—Local papers state that a company to be known as the Cincinnati, Dayton & Toledo Traction Co. will be formed at Hamilton to open up a trolley road from Toledo to Cincinnati. The new company will be a consolidation of the Southern Ohio Traction Co. and the Cincinnati & Northwestern Ry., and will issue bonds for the extension of the properties.

ANDERSON, IND.—The officials of the Merchants' Traction Co., of this city, have been advised that the cost of their electric line from this city to Middletown, nine miles, will be about $133,000.

ATTICA, IND.—H. C. Martin, Attica, writes that surveys have been made and plans are now under way for the line to be built by the Fountain & Warren Traction Co., to extend from the city limits of Lafayette, Ind., to the limits of Danville, a distance of 45 miles. The entrance to Lafayette will be over local lines. The rights of way are now being secured. Electricity will be used as motive power. C. M. McCabe is Pres., Covington, and Chas. Berry, Anderson, Gen. Mgr.

CHICAGO, ILL.—The Chicago City Ry. Co. has projected improvements involving an outlay of $8,000,000. They embrace new car shops and a remodeled power supply system. A new $3,000,000 power plant of 30,000 HP. capacity will be located at 39th and Halstead Sts. This plant will supply the entire South Side system.

JOLIET, ILL.—The Joliet, Plainfield & Aurora Electric Ry. has secured a 50-year franchise for their line from Joliet to Aurora, to be built this summer.

MILAN, ILL.—F. A. Caldwell, of this place, informs us that the right of way for the electric railway from Rock Island, Ill., to Andalusia, Edgington, Illinois City, Buffalo, Prairie, Millersburg and Aledo has been promised, but the incorporation of a company will not take place until some points are settled regarding the entrance of the line into the city of Rock Island. The length of the projected road will be about 42 miles.

LA CROSSE, WIS.—The La Crosse & Black River Falls Electric Ry. has filed articles of incorporation, with a capital stock of $15,000. Work on the surveys will be started at once. The cost of the road, which will be used for freight and passenger traffic, will be in the neighborhood of $1,000,000. Henry Gund, J. M. Hixon and H. J. Hirschheimer are incorporators.

SPARTA, WIS.—The council has granted a franchise to capitalists who propose to construct an electric road to Melrose, Jackson county, touching at Cataract and Burr Oak. The length of the proposed line will be about 25 miles.

SEATTLE, WASH.—General Manager Dickinson, of the Seattle Electric Co. has filed plans with the board of public works showing the route of the Green Lake car line extension through Woodland Park.

LOS ANGELES, CAL.—The Los Angeles & Redondo Ry. Co. has made application to the supervisors for a franchise for extending its line about two miles, passing through Inglewood and Hyde Park.

PRESCOTT, ARIZ.—The council has granted to F. L. Wright a 50-year street railway franchise for a line in this city.

KINGSTON, ONT.—R. I. Carson, Kingston, writes that the Ontario Electric Ry. will soon organize and elect its officers. A charter has been obtained, and as soon as arrangements can be made with some 47 municipalities for rights of way for the line contracts will be awarded for construction. This will porbably be some time during the fall. The line will be 257 miles long, and will touch all the towns on the government road from Cornwall to Toronto. Geo. E. Sleeper is Ch. Engr., 7 Duane St., Boston, Mass.

LONDON, ONT.—It is reported that contracts for the construction of the Middlesex & Elgin Interurban Ry. will be let within a month. The proposed road will extend from London to St. Thomas and Port Stanley, a distance of 37 miles. The company is capitalized at $500,000, and has its headquarters at 59 Dundas St.

LIGHT, HEAT AND POWER PLANTS.

WEST HAVEN, CONN.—This place has voted to build an electric plant, to cost about $3,500, instead of letting a lighting contract.

BALDWINSVILLE, N. Y.—The Seneca River Power Co. is reported to have purchased the property of the Edison Illuminating Co., which it proposes to extend at a cost of about $40,000.

DUNKIRK, N. Y.—A company is being organized by Dr. D. G. Pickett, of Fredonia, N. Y., and C. J. Carney, Ch. Engr. Brooks Locomotive Works, to build a power plant at Arkwright Falls, to cost about $300,000. E. A. Wilder has reported that a 75-ft. dam, a 1½-mile 15-ft. rock tunnel and a mile of 30-in. pipe will be required.

MECHANICSVILLE, N. Y.—It is stated that through the Morton Trust Co., New York, the Hudson River Electric Co., Glens Falls, a subsidiary company of the Hudson River Water Power Co., at Spier Falls, has purchased for $450,000 the controlling interest in the Hudson River Power Transmission Co., of Mechanicsville. The Mechanicsville company is developing over 7,000 HP. of electricity, 4,000 HP. of which they are transmitting to the General Electric Works, and 3,000 HP. of which is supplied to the Albany division of the United Traction Co.

PROSPECT, N. Y.—This place has voted to light the streets by electricity.

ROCHESTER, N. Y.—Reports state that the Rochester Gas & Electric Co. has about completed plans for a storage dam, etc., on Silver Lake outlet, between the river and Gibsonville.

NEWVILLE, PA.—This place has voted to issue $8,000 in bonds for an electric plant.

READING, PA.—The Metropolitan Electric Co., it is understood, proposes to extend its plant this summer.—The People's Electric Light & Power Co. intends to install 1,000-HP. turbine wheels, 1,000-HP. engines and 1,200-HP. boilers.

ALEXANDRIA, VA.—Geo. L. Simpson, Mayor, writes us that the plans for improving the gas works are completed; estimated cost, $20,000.

BELINGTON, W. VA.—Floyd Teter and Fred. O. Blue have asked for a franchise for an electric plant and water-works to cost about $50,000.

BUCKHANNON, W. VA.—G. F. Stocket & Co. are reported as arranging for the construction of their proposed electric plant and water-works.

KEYSTONE, W. VA.—This place proposes to issue $25,000 in bonds at once for an electric plant, water-works and paving, according to reports.

WELCH, W. VA.—Reports state that an electric plant and water-works will be built here, at a cost of about $10,000. Address D. J. Howell.

AUGUSTA, GA.—Stewart Phinizy has been granted a 20-year franchise for an electric plant and gas works.

DALTON, GA.—This place has voted to issue $10,000 in bonds for an electric plant.

STATESBORO, GA.—A 20-year franchise for a plant, water-works, etc., has been granted to a company that is now organizing to build at a cost of $15,000. Address J. A. Brannen.

AVONDALE, ALA.—The question of an electric plant and water-works to cost about $25,000 is being considered. W. R. Starbuck, Mayor.

SHREVEPORT, LA.—N. V. Morris, of Little Rock, Ark., is reported to have formed a company which has purchased the electric plant and gas works of the Shreveport Electric Light & Power Co.

DUCKTOWN, TENN.—The Tennessee Copper Co., it is stated, has decided to erect an electric plant at Buna Buna.

BRADNER, O.—The council has let the following contracts for an electric plant: H. W. Christian, pole construction; The Arbuckle-Ryan Co., engine and boiler; E. E. Dale Supply Co., machinery, all of Toledo, O.; estimated cost, $18,000.

CLEVELAND, O.—J. V. N. Yates, 65 Lake St., is reported as arranging to construct a power plant to cost $30,000.—The Northwestern Gas Co., of Toledo, O., proposes to extend its gas lines to this city at a cost of about $1,000,000.

COLUMBUS, O.—The Great Eastern Theatre & Electric Lighting Co. has asked for a franchise for an electric plant.—On April 21 the new city council voted to issue $175,000 in bonds for a municipal electric plant, but a report on April 26 states that Director Immel has refused to sign the contract employing F. W. C. Bailey to prepare the plans and specifications.

NATIONAL MILITARY HOME, O.—Bids are asked until May 23 for extending the electric plant at central branch, N. H. D. V. S. A. J. Clark, Treas.

COLDWATER, MICH.—The council is reported as arranging for making repairs to the plant and water-works, to cost $12,500.

NEWAYGO, MICH.—The county supervisors have granted a franchise for a power plant at Bridgeton to the Muskegon River Water Power Co. The dam will be 22 ft. high and 500 ft. long.

CHICAGO, ILL.—It is stated that the Chicago Edison Co. has purchased a site on Fish St. for an electric plant.

EDWARDSVILLE, ILL.—J. R. Bennett, of Wyandotte, Mich., has been granted a 15-year franchise for erecting and operating an electric plant. The franchise of the Edwardsville Electric Light & Power Co. expires Oct. 14. Aug. Loeffler, of Wyandotte, is interested.

MITCHELLVILLE, IA.—The Interurban Ry. Co. proposes to build a power house, car barn, etc., at this place.

RIVERSIDE, IA.—It is reported that Muscatine parties wish to build an electric plant here.

RUSHFORD, MINN.—Bids are asked until May 22 for an electric plant and water-works, as stated in our advertising columns. Address C. M. Morgan, Preston, Minn.; C. O. Alen, Cy. Clk.

WICHITA, KAN.—Bays Bros. Co., of this city, have been awarded the contract, at $23 an arc light a year, for furnishing 100 lights for three years.

PIERCE, NEB.—Benj. Lindsay has asked for a franchise for a gas plant.

COLUMBUS, NEB.—Reports state that a New York engineer is making investigations into the matter of building a power and irrigation canal to tap Loup River in Platte county. The power plant will have a capacity of 12,000 HP. and will cost about $500,000. M. [illegible], of Berne, Switzerland, is at the head of the project.

LIVINGSTON, MONT.—A. O. Newton has been awarded the contract for lighting this city for three years.

MONROE CITY, MO.—This place will vote May 10 on the question of issuing $15,000 in bonds for an electric plant.

RICHMOND, MO.—This place, it is stated, will soon vote on the question of building an electric plant.

ST. LOUIS, MO.—R. P. Garrett, Engr. Bd. of Improvements, writes us that no time has yet been set for receiving bids for electric plants for the city hall and the insane asylum, but that plants will probably be installed this year. Estimated cost, $40,000.

ST. LOUIS, MO.—The Missouri & Merrimac River Water Co., it is stated, has asked the legislature for permission to construct a power canal 22 miles long to connect the Missouri River with the Meramec. It is intended to develop about 20,000 HP. R. D. O. Johnson, Ch. Engr.

HOUSTON, TEX.—The Citizens' Electric Light & Power Co. has let the contract for the addition to its plant to John Stadtler, at about $26,000. The new machinery, etc., will cost about $20,000 more.

EL RENO, OKLA. TER.—J. A. Masters, Secy. and Mgr. El Reno Light & Power Co., writes us, under date of April 20, that all the contracts for the plant have been let except the transformers, etc.; estimated cost, $25,000.

OKLAHOMA CITY, OKLA. TER.—J. E. Dewing, of Michigan City, Ind., has been granted a gas plant franchise; estimated cost, about $100,000.

CRIPPLE CREEK, COLO.—W. S. Stratton is reported to have completed arrangements for an electric light and power plant. E. E. Wade, Engr., Colorado Springs, Colo.

EVERETT, WASH.—The Great Northern R. R. Co. is considering the matter of utilizing the water power now going to waste in the Cascade Mountains for the purpose of hauling trains over the range.

SEATTLE, WASH.—The council is considering a bill authorizing an appropriation of $5,000 for investigating the question of a municipal electric plant at Cedar Falls. Address City Engineer Thomson.

VANCOUVER, WASH.—J. R. Harvey, the present lessee of the city electric plant, and I. N. Gray, Pres. P., V. & Y. R. R., have submitted the only propositions to buy the city plant. It is probable that Mr. Gray's bid will be accepted. He offered to build a new plant to cost $40,000 and to accept a 25-year franchise.

EUREKA, CAL.—A. J. Wiley, of Boise City, Idaho, is reported to have been awarded the contract by A. F. Johns, Gen. Mgr. McCloud River Electric Power Co., for constructing a power plant of 12,000 HP. capacity.

ONTARIO, CAL.—Bids are asked until May 26 for the purchase of a franchise for an electric plant, the same having been applied for by the San Antonio Water Co. Jacob Jesson, Clk.

LOGAN, UTAH.—It is stated that Mayor Hansen has reported in favor of an electric plant to cost about $60,000.

PETERBOROUGH, ONT.—Bids are asked until May 26 for furnishing the materials and for constructing a combined concrete dam and railway bridge, power house and tailrace, etc., as described in our advertising columns, for the Peterborough Hydraulic Power Co., Ltd. C. H. Keefer, Engr., 49 Metcalfe St., Ottawa, Ont.

ANNAPOLIS ROYAL, N. S.—Bids are asked until May 19 for the purchase of $12,000 of 4% electric plant extension bonds. F. W. Harris, Clk.

SHERBROOKE, QUE.—Bids are asked until May 10 for building a bulkhead dam and gates at a point on the Magog River for the Sherbrooke Gas & Water Co.

BRIDGES.

BETHEL, VT.—R. J. Flint, Chn. Selectmen, writes us that the contract for the bridge across the White River at River St. was awarded to the United States Construction Co. April 15. The bridge is to be of steel pin kind, of one span of 195 ft. and a width of 20 ft., and is to be completed by Sept. 1.

LAWRENCE, MASS.—The council is investigating a project to open another bridge across the Merrimac River and has asked the B. & M. R. R. Co. for information concerning the Lowell railroad bridge. The project if carried out, together with the other necessary work, will cost about $200,000.

WAKEFIELD, MASS.—Orlando K. Morgan writes us that bids will be received until May 31 for a bridge of about 66-ft. span over the B. & M. tracks in Greenwood, Mass. E. H. Morton, Secy., Greenwood.

BUFFALO, N. Y.—The council has cut the item of $7,000 in the budget for the Scajaquada Creek bridge at Springer Ave., to $3,000, and the $36,500 item for the Buffalo River bridge at South Park Ave., to $12,000.

CANAJOHARIE, N. Y.—A contract has been let to the Owego Bridge Co. to place in the new bridge curved plates to strengthen the concrete, at an additional cost of $4,950.

COHOCTON, N. Y.—The contract for the new bridge across the Delaware River has been let to the Owego Bridge Co., for $10,450.

GENEVA, N. Y.—W. S. Wood, Secy., writes us that bids will be received June 1 for constructing the bridges to be erected at North St. and Andes Ave. The spans are to be 18 and 30 ft. and the width is to be 40 and 30 ft., respectively. Bridges to be I-beams and girder kind, with rubble in cement or concrete foundations, and to cost $3,000.

JONESVILLE, N. Y.—The contract for a concrete bridge over the D-Wans-Kill has been let to John Fuller, Stillwater, N. Y., for $2,115.

MOUNT VERNON, N. Y.—The council has approved a bill for the erection of a viaduct over the Harlem R. R. tracks at West Mount Vernon. The viaduct is to cost $225,000.

PERRY, N. Y.—A special town meeting is to be held May 13 to vote on the question of expending not more than $7,000 for the erection of an iron bridge between Walnut and Elm Sts.

WALDEN, N. Y.—A special election was held May 6 to vote on a proposition to raise $7,000. Part of this money is for two new bridges across the Tenbrook. The contract for an iron bridge across the Wallkill at Oak St. has been let to the Owego Bridge Co., for $5,590, not including the abutments.

NEWARK, N. J.—Bids are asked until May 12 for constructing bridges with steel beams, brick arches and stone abutments on Springfield Ave. in Irvington and on Eagle Rock Ave. in Livingston. Wallace Ougheltree, Chn. Com. Freeholders.

SOMERVILLE, N. J.—Joshua Doughty, Jr., County Engr., writes us that the contract for a high truss pin bridge on concrete foundation at Woodfern, N. J., was let April 22 to John W. Scott, Flemington, N. J., and that the work of construction commenced May 3.

GREENWICH, PA.—Viewers have recommended the erection of a bridge across Mill Creek in this town. The bridge recommended is to be of iron and stone, of one span 67 ft. long, and will cost about $2,900.

HERNDON, PA.—It is reported that a company is being organized to build a 3,000-ft. steel bridge across the Susquehanna River, the county having refused to build this bridge. J. D. Bogar, Herndon, is said to desire information and approximate cost of such a structure.

HIGHLAND, PA.—A bridge jury has been appointed by the Chester County Court to view and report on the necessity of a county bridge over Beech Run Creek on the line between this town and East Fallowfield, according to reports.

LEWISBURG, PA.—Bids are to be asked for soon for the construction of a 30 × 50 ft. iron bridge to be owned by Union county and Lewisburg. Plans are to be furnished by the contractors.

LEWISBURG, PA.—The grand jury has reported favorably and the court will take final action May 19 on the following Union county bridges: Hartley township, across Laurel River, 33 ft. long; Buffalo township, across Rapid Run, 45 ft. long; Union township, across Dry Valley Run, 30 ft. long.

MIDDLEBURG, PA.—A petition has been presented the county court asking for a bridge across the Susquehanna River in Union.

SUNBURY, PA.—It is reported that a bridge is to be built across the Susquehanna from this place to the Snyder County side by the Sunbury Bridge Co., whose notice of application for a charter has recently been published.

TANNERY, PA.—Viewers are soon to report on the building by Carbon and Luzerne counties of a steel bridge 138 ft. long by 16 ft. wide over the Lehigh River at this town. The cost is estimated at $6,500.

TILDEN, PA.—Viewers have recommended that the county build a bridge across Mill Creek at Berne. The new structure is to cost about $1,500, and the viewers recommended that it be of two spans of 30 ft. each.

WILKESBARRE, PA.—H. D. Hoy, County Comr., writes us that iron and stone bridges on stone foundations are to be erected in different parts of the county, at an estimated cost of $14,000. W. B. Alleger, Des. Engr., Luzerne, Pa.

CENTERVILLE, DEL.—The contract for a steel draw 114 ft. long and 11 ft. wide for the Chester bridge at Chestertown has been let to the York Bridge Co., for $7,465.

ANNAPOLIS, MD.—The contract for the reconstruction of the Sweetzer bridge across the west branch of the Patapsco River, has been let to Sanford & Brooks Co., for $1,750.

WHITE HAVEN, MD.—The question of bridging the Wincomico River at this place is being agitated. Granville M. Catlin is said to be interested.

WHEELING, W. VA.—It is reported that the Fairmont & Clarksburg Electric Ry. Co. contemplates the building of a new bridge across Elk River for the purpose of extending their system into Glen Elk.

CEDARTOWN, GA.—Bids for building two new bridges in Polk county will be received May 19 from 1 to 1:30 p. m. Bids are to be for both wood and iron bridges. D. M. Russell, Chn.

COLUMBUS, GA.—Robt. S. Johnson, Supt. Pub. Wks., informs us that the contract for the construction of the superstructure of the 14th St. bridge has been let to the American Bridge Co., for $35,500. The bridge is to be built on plans prepared by the company. The following bids were also received for the substructure only: Cut stone piers and rubble abutments, B. H. Hardaway, $29,000; concrete piers and concrete abutments, Geo. H. Crafts, $25,000; B. H. Hardaway, $24,400; cylinder piers and concrete abutments, Geo. H. Crafts, $22,500; B. H. Hardaway, $20,000.

SAVANNAH, GA.—The U. S. senate has passed a bill for the construction of a bridge across the Savannah River connecting this city and Hutchinson's Island.

HAZLEHURST, MISS.—W. M. Ainsworth, Pres. Bd. Supervisors, Copiah Co., writes us that the American Bridge Co. has been engaged to make the plans for proposed bridges. The proposals are to be called for June 2.

NEW ORLEANS, LA.—According to a local press report a company has been formed for the purpose of building a bridge and aqueduct across Lake Pontchartrain.

CLEVELAND, O.—Bids are asked until May 14 for the construction of a trestle highway bridge over Cahoon Creek in Dover. Wm. E. Evers, C. E., County Surveyor, Cleveland; Julius C. Dorn, County Clk.

COLUMBUS, O.—Bids are asked until May 19 for constructing the substructure of the Hayden Run bridge, and for constructing the substructure and superstructure of four other pridges. L. E. Jones, Clk. County Comrs.

HURON, O.—The receiver for the Sandusky & Interurban Electric Ry. has been granted $29,000 for the construction of a swing bridge over the river at this place.

PAINESVILLE, O.—At a recent election the issuance of $10,000 of bridge bonds was defeated.

TOLEDO, O.—The Toledo plant of the American Bridge Co. has recently received contracts for 15 bridges for the Wheeling & Lake Erie R. R., requiring about 500 tons of steel.

WAPAKONETA, O.—The local merchants are agitating the question of a new bridge across the Anglaize River.

MT. VERNON, IND.—Bids, according to the local papers, are asked until May 16 for constructing four steel county bridges. S. G. Cobb, County Audr.

NEW CASTLE, IND.—Bids are asked until May 15 for constructing 15 steel county bridges. Mark Davis, Audr.

TERRE HAUTE, IND.—Bids are asked until May 10 for constructing the state line arch in Fayette township. James Soules, County Audr.; Joseph Crockett, Comr.

WABASH, IND.—The Wabash Bridge & Iron Co. has secured a contract for all the steel bridges to be built on the extension of the C., R. & M. R. R. from Cottage Grove to Cincinnati. The contract aggregates $150,000.

BAY CITY, MICH.—The contracts for three county bridges have been let as follows: Squawconning Creek bridge, $1,200; Merrit road bridge, $500, to Massillon Bridge Co., Toledo, O.; Kawkawlin River bridge to King Bridge Co., Cleveland, O., $2,600.

BENTON HARBOR, MICH.—Bids are asked until May 15 for a concrete culvert over Ox Creek; estimated cost, $2,500. W. P. Banyon, Clk.

GRAND RAPIDS, MICH.—Bids are asked until May 12 for the purchase of $100,000 of bridge bonds. Isaac F. Lamoreaux, Cy. Clk.——Local press reports state that the building of the Pere Marquette bridge promised by President Chas. M. Heald, is now an assured fact as the company has accepted the council's grant of rights.

DETROIT, MICH.—A proposition for a bond issue, not to exceed $600,000, for the purpose of a bridge between Belle Island and this city is to be voted on at the general election next fall.

SAUGATUCK, MICH.—It is reported that $8,000 of bonds is to be issued for a bridge across the Kalamazoo.

DES PLAINES, ILL.—The following bids were received for the construction of the superstructure of a bridge in this place: Elkhart Bridge Co., $4,900; Lafayette Engineering Co., $5,287; Hansell-Elcock Co., $8,050; Massillon Bridge Co., $6,699. The following bids, per cu. yd., for substructure work were also received: John C. Darst, $7.24; R. F. Wilson & Co., $6.72; Ralph & Sumner Sollitt Co., $9.60; R. C. Huston & Co., $7.50; H. V. Snyder, $9.40; Elgin Construction Co., $7.33.

CHISHOLM, IA.—According to reports the village council is considering the question of erecting a bridge to cost about $10,000.

BROOKINGS, S. DAK.—Bids are asked until May 12 for the construction of a 60-ft. steel bridge, wooden pile bridge and three 30-ft. wooden bridges. John Alton, County Audr.

SALEM, S. DAK.—Bids are asked until May 12 for 36-ft. combination bridge, pile foundation, 32-ft. approach, and a 36-ft. combination bridge, stone foundation already built. Philip Roche, County Audr.

GRAFTON, N. DAK.—Bids are asked until May 15 for the construction of about 20 combination and pile bridges, number, style, size and location of bridges to be determined by county commissioners May 13. O. M. Fraser, County Audr.

PETERSBURG, N. DAK.—Bids are asked until May 15 for constructing a bridge across south fork of Forrest River three miles east of this place. H. Telander, County Audr., Laporte, N. Dak.

SHERBROOKE, N. DAK.—It is reported that bids are asked until May 9 for constructing seven steel combination county bridges. T. S. Hunt, County Audr.

MILES CITY, MONT.—The contract for a bridge across the Little Missouri River has been let to W. S. Hewitt & Co., Minneapolis, Minn., for $2,500.

ST. CHARLES, MO.—Bids are asked until May 13 for 18, 20, 21 and 36-ft. span steel bridges, all on legs. Carr Edwards, Engr.

REFUGIO, TEX.—The attorney-general has approved of a $5,000 issue of bridge bonds for Refugio county.

COLORADO SPRINGS, COLO.—The fund for building the Platt Ave. bridge has been completed.

PORTLAND, ORE.—It is reported that the county commissioners have decided to make extensive repairs to the east approaches of the Madison and Morrison St bridges, requiring about 300,000 ft. of lumber, and costing over $5,000.

TOLEDO, ORE.—Bids are asked until May 14 for building a bridge across Five Rivers at mouth of Lobster River, and also for a bridge across Lobster River. J. H. Lutz, County Clk.

PIPESTONE, MAN.—Bids are asked until May 28 for the construction of a steel bridge 60-ft. span, 16-ft. wide, across Pipestone Creek. A. P. Power, Secy.-Treas., Virden, Man.

BUILDINGS.

BROCKTON, MASS.—Bids are asked until May 20 for a four-room addition to the Kingman school house. Walter Lane, Chn. Com.

CAMBRIDGE, MASS.—The committee appointed by Harvard University to compare the library of that university with those of other colleges has recommended the construction of a new structure, costing approximately $750,000.

PITTSFIELD, MASS.—The Norwood Realty Co., formed under the laws of New Jersey, with a capital stock of $150,000, will build an addition to the Norwood Hotel, on Summer St., with a theatre on the ground floor.

WOONSOCKET, R. I.—Bids are asked until May 23 for erecting a fire station on South Main St. Paul H. Jacques, Chn. Joint Standing Com. of Fire Dept.

DANBURY, CONN.—Fire destroyed nearly all the buildings in the business section of this town on May 5, including two banks and three hotels, entailing a loss of between $500,000 and $600,000.

STAMFORD, CONN.—Anson Phelps Stokes, New York, has had plans prepared by Howell & Stokes, Archs., 47 Cedar St., New York, for a mansion at Collender's Point, Darien, to cost about $250,000.

BROOKLYN, N. Y.—Henry W. Maxwell, Pres. Bd. Regents Long Island College Hospital, has decided to make another gift in the form of a dormitory or nurses' house. The building will be three stories, 50 × 90 ft., fireproof in construction, and will cost about $60,000. It will be erected by September.

BUFFALO, N. Y.—Plans have been prepared by Lansing & Beieri, Archs., 371 Pearl St., for an 8-story office building, 182 × 80 ft., for the Thompson Hersee Estate on Main St.——The Wells Elevator, situated on the Buffalo River, at the foot of Indiana St., was destroyed by fire on May 4. The loss for the structure and contents amounted to about $225,000.

GLOVERSVILLE, N. Y.—Bids are asked until May 26 for the construction of two brick fire stations. Monell Vrooman, Cy. Engr.

NEW YORK, N. Y.—The Plaza Hotel and the site at 58th and 59th Sts. and the Plaza, have been purchased by a syndicate, of which L. C. Raegener, of the firm of Dickinson, Brown & Raegener, attorneys, and John J. Gibbons, 284 Fifth Ave., are members, and will be rebuilt.——Plans have been made for the remodeling of St. James' Pro-Cathedral, in Jay St., Brooklyn, at a cost of $75,000. The front of the edifice will be rebuilt and the roof will be raised 10 ft.——It is said that the Boreel Building, at Broadway, Cedar and Thomas Sts., now owned by the George A. Fuller Construction Co., will be sold to a corporation, which proposes to replace the present structure, built in 1878, by a 25-story office building costing about $2,000,000. The construction company will have charge of the work.——The Bellevue Realty Co. has purchased the site of the Matthews soda water factory, opposite Bellevue Hospital, and will erect a nurses' home and training school.——The building comprising Nos. 1204 and 1206 Broadway will be torn down soon to make way for a 10-story fireproof hotel, it is thought, as an addition to the present Gilsey House. Plans for the new structure are now being prepared by Bigelow, Wallace & Co., Archs., 1123 Broadway, and call for an expenditure of $1,000,000.

NEW YORK, N. Y.—Plans have been filed by L. Michelson, 297 Seventh Ave., for a 6-story brick tenement, 41 × 83 ft., at 353-55 East Third St., to cost $40,000. Horenburger & Straub, Archs., 122 Bowery; by the Schaefer Co., Park Ave. and 51st St., for a 4-story brick lofts, 50 × 85 ft., to cost $40,000. J. Kastner, Arch.; by the Battery Place Realty Co., 137 Broadway, for a 20-story brick office building, 180 × 69 ft., at 2 and 4 Washington St., to cost $1,000,000. H. J. Hardenbergh, Arch., 10 West 23d St.; by C. J. Minstein, 71 East 82d St., for a 6-story brick tenement, 45 × 79 ft., at Allen and Broome Sts., to cost $50,000. G. F. Pelham, Arch., 303 Fifth Ave.; by H. L. Sprague, 15 Broad St., for a 6-story brick dwelling, 25 × 62 ft., in West 39th St., to cost $40,000. A. M. Allen, Arch., 571 Fifth Ave.; by J. H. Schiff, 27 Pine St., for a 20-story brick office building, 68 × 148 ft., at 52-4 William St., to cost $500,000. J. B. Baker, Arch., 156 Fifth Ave.; by the City of New York, for a 5-story brick school, 136 × 122 ft., at Gouverneur and Monroe Sts., to cost $160,000. C. B. J. Snyder, Arch.; by J. Margovitz, 163 Henry St., for a 6-story brick tenement, 50 × 91 ft., at 745-47 East Sixth St., to cost $40,000. Horenburger & Straub, Archs.; by I. Kleinfield, 290 Bowery, for a 6-story brick tenement, 46 × 85 ft., at 223-25 East 21st St. Horenburger & Straub, Archs.; by I. Haft, 416 East 52d St., for a 6-story brick tenement, 37 × 87 ft., at 216 East 118th St., to cost $40,000. G. F. Pelham, Arch.; by L. F. J. Weiher, Owner and Arch., 103 East 125th St., for a 6-story brick tenement, 50 × 87 ft., in East 127th St., to cost $75,000; by C. O. Bigelow, 102 Sixth Ave., for a 7-story brick lofts building, 39 × 79 ft., in Sixth Ave., to cost $60,000. J. E. Nitchie, Arch., Park Row Bldg.; by the American Pastry Mfg. Co., 540 Grand St., for a 5-story factory, with stable, 100 × 95 ft., in East 15th St., to cost $110,000. J. Mumckivitz, Arch., 247 West 125th St.; by W. C. Dewey, Springfield, Mass., for a 12-story brick apartment house, 97 × 88 ft., in West 31st St., to cost $500,000. J. H. Duncan, Arch., 21 West 24th St.; by Frank Gerrist, 1306 Boston Road, for four 5-story brick tenements, each 37 × 90 ft., in Caldwell Ave., to cost $100,000. Moore & Landseidel, Archs., 148th St. and Third Ave.; by the Holy Trinity Lutheran Church, for a rectory and church, 19 × 47 and 65 × 106 ft., to cost $125,000. Schickel & Ditmars, Archs., 111 Fifth Ave.; by the New York Model Dwelling Co., 156 Fifth Ave., for a 6-story brick tenement, 50 × 87 ft., at 215-17 West 67th St., to cost $40,000. Kissam & Parkhurst, Archs., 156 Fifth Ave.; by A. Silverson, 236 East 61st St., for a 6-story brick tenement in Houston St., costing $42,000. G. F. Pelham, Arch.; by R. Hoe, Owner and Arch., 11 East 36th St., for a 6-story brick foundry and storage building, 100 × 100 ft., at Broome and Columbia Sts., to cost $110,000; by the German Hospital, at Park Ave. and 77th St., for alterations costing $50,000. Schickel & Ditmars, Archs.; by J. H. Schiff, 27 Pine St., for a 20-story office building at 52-4 William St., costing about $500,000. J. B. Baker, Arch., 156 Fifth Ave.; by Packtman & Levin, 17 Humboldt St., Brooklyn, for a 6-story brick tenement, 43 × 82 ft., at 218-20 East 11th St., New York, to cost about $50,000. Sass & Smallhouse, Archs., 23 Park Row; by O. F. Zollfier, 49 West 54th St., for a 6-story brick office building, 48 × 150 ft., at 200-02 Broadway, costing about $100,000. Rossiter & Wright, Archs., 95 Liberty St.; by S. Duncan, 23 East 63d St., for a 5 and 6-story brick dwelling, 50 × 88 ft., at 3 East 75th St., to cost about $125,000. C. P. H. Gilbert, Arch., 1123 Broadway.

NEW YORK, N. Y.—Franklin Pettit has purchased the old Columbia College block at Madison Ave. and 49th St. The present buildings will be replaced by 5-story residences.——Richard M. Montgomery has purchased the Paran Stevens plot at 44th St. and Fifth Ave. for a syndicate which proposes to build a hotel costing about $2,500,000. The new building will be erected by the New England Hotel Co., recently incorporated, with $500,000 capital stock. Percival W. Clement is largely interested in the new company.——Gov. Odell has signed the bill authorizing the construction of a hospital in the Borough of The Bronx.——Secretary of War Root has approved the plan prepared by McKim, Mead & White, Archs., 160 Fifth Ave., which provide for extending Governor's Island 2,500 ft. to the southwest, more than doubling its area. The increased area is to provide room for barracks and quarters for one battalion of troops, for storage accommodations and ordnance buildings. The cost of the improvements will aggregate $1,595,000.

PERU, N. Y.—Bids are wanted by the school trustees until May 20 for the erection of a 2-story school building in District No. 1.

SCHENECTADY, N. Y.—The gift of Andrew Carnegie to Union College of $40,000 for the completion of the Nott Memorial Hall and remodeling for a library has been accepted by the board of trustees of that institution.

UTICA, N. Y.—The directors of the Utica National Bank have adopted the plans for a 10-story building prepared by Robt. W. Gibson, Arch., 54 Broad St., New York. The building will be 110 × 112 ft., of fireproof construction.

WATERTOWN, N. Y.—The county treasurer has sold the issue of $50,000 in bonds, the proceeds of which are to be used for building and furnishing a new county building.

CAMDEN, N. J.—Thomas Stephens, Arch., Masonic Temple Bldg., has completed plans and is now taking bids for a 6-story warehouse for the J. B. Van Sciver Co., at Delaware Ave. and Arch St. It will be 58 × 100 ft. and will cost $50,000.——Wm. J. Murphy & Bros., 263 South 10th St., Philadelphia, Pa., contractors for the new theatre for J. R. Baker at Broadway and Sycamore Sts., are ready for bids on small material. The building will be two stories high and will cost $50,000.

NEWARK, N. J.—Max Hart, 99 Nassau St., New York, will erect a 10-story apartment house at Broad and West Kinney Sts., at a cost of $150,000. A site for the new building was recently purchased.——The contract for the U. S. custom house and postoffice has been let to Richardson & Burgess, 613 14th St., N. W., Washington, D. C., at $84,000.

ALLEGHENY, PA.—Bids are asked until May 13 for the work necessary for the completion of the North End School building. John Jackson, Secy. School Bd.——C. J. Cooper, Treas., Muhlenberg College, Allentown, writes us that preliminary plans are being developed for the university to be established. The buildings will comprise a college building, a dormitory, a residence and power house, having an aggregate cost of $200,000.

CHESTER, PA.—The Y. M. C. A. will soon select an architect for the new building to be erected by that institution at Sixth and Edgemont Ave. It will be a 4-story brick and stone structure, costing about $50,000. W. M. Wilmerton is interested.

GREENSBURG, PA.—The county commissioners have awarded the contract for the erection of the new court house at this place to the Lindsay Construction Co., of Pittsburg, at $570,000. The other bidders were given in our issue of April 24.

PHILADELPHIA, PA.—The contract for the new 6-story building for the Harrison Estate at Juniper and Market Sts. will soon be awarded. The building will be 42 × 80 ft., costing $60,000. E. V. Seeler, Arch., Real Estate Trust Bldg.——The Oliver H. Bair Co., 1517 Chest-

nut St., is receiving competitive plans for a 4-story 45 × 150 ft. brick and iron building at 1712-14 Chestnut St., to cost about $60,000.——The contract for erecting the purifier house for the United Gas Improvement Co. has been let to John R. Wiggins & Co., Heed Bldg. The structure will be three stories, 50 × 200 ft., of brick and steel and will cost $125,000. A. Raymond Raff, 1635 Thompson St., has received the contract for the valve house and boiler house for the company at Germantown, to be two stories, and to cost $65,000.——Benj. Ketchams' Sons, 1029 Brown St., have received a contract for erecting an arcade building at 11th and Market Sts. for N. Snellenburg & Co. It will be five stories, 30 × 185 ft., and cost $100,000.——The plans of Duhring, Okie & Ziegler, Archs., 714 Crozer Bldg., for the new public school to be built in East Town has been accepted. It will be three stories, 65 × 100 ft. Specifications will be ready for contractors in a few weeks.——Plans have been filed by Andrew Moore for a 3-story warehouse building, 18 × 48 ft., to be built at Front and Master Sts. for Wm. Mulherrin.——Wm. Steele & Sons have posted plans and are taking bids for the erection of a 17-story manufacturing building for Walter M. Steppacher & Co. at 13th and Quarry Sts.

LANCASTER, PA.—Chas. W. Balton & Co., Archs., Witherspoon Bldg., have plans under way for a church for the St. Paul's Reformed Church, to cost $50,000. Rev. J. W. Merringer, 50 East Orange St., is pastor.

PHILADELPHIA, PA.—Amos W. Barnes, Arch. and Engr., is preparing plans for a 6-story apartment house, with a roof garden, to be 100 × 150 ft. and fireproof.

PHILADELPHIA, PA.—The bureau of yards and docks, Navy Dept., Washington, D. C., received the following bids April 26 for constructing a brick and steel building at the League Island navy yard; M. T. Endicott, Ch. Bureau Yards and Docks: (1) being for pattern shop and storehouse for steam engineering, complete; (2) for same complete, but omitting elevator engine, machinery and car, etc.; (3) same, but omitting as in item 2 and also all piling driven within the area inclosed by the concrete foundations; (4a) for mixed gravel and sand (run of the bank), required for filling in; (b) for aggregate, or screened gravel or broken trap rock, required in the composition of all (excepting the cinder) concrete; (c) for sand required in composition of all mortar for brick work and terra cotta, and all concrete for foundations and fireproof floors, ceilings and partitions; (5) alternate in case bids on items 1, 2, or 3 exceed the appropriations, $57,500; (6) time for completing: Penn Erecting Co., 1421 Filbert St., Philadelphia, (1) $70,580, (2) $68,260, (3) $65,460, (5) $57,460; L. L. Leach & Son, 1462 Marquette Bldg., Chicago, (1) $74,731, (2) $72,000, (3) $69,000, (4a) 70 cts. per yd., (4c) 70 cts. per yd., (5) $57,500, (6) 12 mos.; Geo. L. Walker, 156 Fifth Ave., New York, (1) $77,310, (2) $74,390, (3) $71,048, (4a) 1,000 cu. yds., 20 cts., (4b) 900 cu. yds., 50 cts., (4c) 1,000.5 yds., 50 cts, (6) 12 mos.; Henderson & Co., Ltd., 1213-15 Filbert St., Philadelphia, (1) $75,350, (2) $73,000, (3) $69,900, (4a) 1,500 yds., 60 cts., (4b) 1,200 yds., $1.00, (4c) 500 yds., 60 cts., (5) $57,430, (6) 14 mos., 10 mos. conditionally; Conners Bros., 16 Thorndike St., Lowell, Mass., (5) $57,500; John T. Buckley, 127 Richmond St., Baltimore, (1) $89,996, (2) $86,496, (3) $80,996, (4a) 1,240 yds., 65 cts., (4b) 730 yds., 75 cts., (4c) 1,260 yds., 75 cts., (6) 10 mos.; Herman Voight, 2923 Girard Ave., Philadelphia, (1) $82,454, (2) $79,724, (3) $77,160, (4a) 1,584 yds., $1.50, (4b) 900 yds., $2.00, (4c) 525 yds. $1.50.

PITTSBURG, PA.—T. C. Jenkins will build a 20-story office building at Fifth St. and Penn Ave., 80 × 112 ft., to be fireproof and to cost about $650,000. The plans have been completed and bids will soon be called for.

PITTSBURG, PA.—Andrew Carnegie is said to have in mind the establishment of a university in this city, to be larger than any in the world.——Plans have been prepared for the 6-story Donaldson storage building, to be erected in Liberty Ave., at a cost of about $150,000. F. C. Sauer, Arch., 613 Hamilton Bldg., will soon ask for bids.——A new 5-story bakery building will be built by the Ward-Mackey Co. at 32d St. and Liberty Ave. It will be 242 × 172 ft., and will cost $185,000.

WEST HOMESTEAD, PA.—Bids are asked until May 16 for the construction of an 8-room fireproof school building in this place. F. E. Mesta, Secy. School District.

WILKESBARRE, PA.—Plans for the new court house have been approved by Judges, Ferris, Lynch and Wheaton, and it is expected that work will be started.

ANNAPOLIS, MD.—The following bids were received by the Quartermaster, U. S. Marine Corps, Washington, D. C., on April 30, for the construction of officers' quarters at the Navy Academy; all bids were rejected, being in excess of the appropriation: Jas. H. Coster, Baltimore, $47,200; Jno. T. Buckley, Baltimore, $49,900; Chas. McCaul Co., Philadelphia, $45,275; Partlett & Skipper, Annapolis, $45,514; Arthur Cowsill, Washington, $43,357; S. J. Prescott & Co., Washington, $47,975.

BALTIMORE, MD.—E. F. Hanna and Harry F. Register, of this city, are forming a company to erect a 7-story apartment house in the vicinity of Madison Ave., at a cost of $60,000.——F. W. Trimble has received a permit for a 7-story apartment building at Guilford Ave. and Preston St., to cost $74,000.——Plans are being prepared by Chas. E. Passell, Arch., for the remodeling of the Gordon Mansion for the purposes of the Home for Indigent, Needy and Worthy Females, provided for in the will of the late Mrs. Margaret J. Bennett.——Competitive plans will soon be asked for the new Eastern High School for Females, to be a brick and iron fireproof structure, three stories high. E. D. Preston, City Hall, may be addressed.——The building committee of the new Babcock Memorial Presbyterian Church, to be erected at Madison and North Aves., have awarded the contract to John Hiltz & Son, at about $60,000.

WASHINGTON, D. C.—Bids are asked until June 2 for the construction of the hygienic laboratory of the U. S. Marine Hospital Service, at Washington. The building will be two stories, of brick and stone and fireproof construction, costing $35,000. James Knox Taylor, Supervising Arch., Treasury Dept.——James G. Hill, Arch., Corcoran Bldg., Washington, has plans under way for a 6-story apartment house in Ontario St., to cost $100,000. It will be of brick and steel and fireproof.——Totten & Rogers, Archs., 19th and Pennsylvania Ave., N. W., have plans under way for the almshouse for the District of Columbia at Bald Eagle Hill. It will consist of a hospital building, of brick and iron, three stories, 60 × 125 ft.; an administration building, two stories, 60 × 150 ft.; four ward buildings, two stories each, and a laundry and power and steam heating plant, one story, 30 × 96 ft.——An appropriation of $300,000 has been asked for a 3-story brick and steel fireproof building to be known as the Hydrographic Office.——The contract for a 1-story office building, 30 × 100 ft., for the Metropolitan Life Insurance Co. of New York, at G St., N. W., will soon be awarded. It will be of brick and stone, costing about $60,000. N. Le Brun & Sons, Archs, 1 Madison Ave.

NORFOLK, VA.—Plans have been prepared by John Kevan Peebles, Arch., for a 6-story building to be erected by the Board of Trade and Business Men's Association. It will be a 6-story structure and fireproof.——Andrew Carnegie has given this city $50,000 to be used for the erection of a library.

HAMPTON, VA.—The board of trustees of the Hampton Normal Institute have selected a site for the establishment of the $100,000 library building which was recently given the school by Mrs. Collis P. Huntington.

RICHMOND, VA.—The contract for the hotel building for W. H. Zimmerman at Seventh and Broad Sts. has been let to E. Tatterson, Hume Bldg., Norfolk. The building will be a 7-story structure, 128 × 136 ft., of brick and steel construction, costing about $150,000.

COLUMBUS, GA.—Bids are asked until June 2 for the construction of a Y. M. C. A. building at Columbus. F. D. Peabody, Chn. Bd. Trustees.

PELL CITY, ALA.—Bids are asked until May 12 for the erection of a jail for St. Clair county. W. S. Foreman, Judge Probate.

NEW ORLEANS, ALA.—The New Orleans Auditorium Co. is having plans prepared for its new building.

JAMESTOWN, KY.—Bids are asked until June 23 for erecting a jail for Russell county, according to reports. S. A. Gann, J. R. C. C.

LOUISVILLE, KY.—Bids are asked until May 14 for the extension of a school building on Seventh St. H. P. McDonald, Arch., Builders' & Traders' Exchange.

INDIANAPOLIS, IND.—Conrad S. Shellhouse will build an apartment house on Vermont St., near Massachusetts Ave., this spring. It will be three stories high and of brick construction. Plans have been prepared by Jeckel & Laycox, Archs.

CONSTANTINE, MICH.—Bids are asked until May 16 for the erection of a jail and sheriff's residence for St. Joseph county. Frank Hull, Chn. Bldg. Com.

GRAND RAPIDS, MICH.—A permit has been granted for the Ryerson Public Library, the gift of Martin A. Ryerson. The building was planned by Shepley, Rutan & Coolidge, Archs., Chicago, Ill., and calls for a fireproof building, 125 ft. square, costing about $250,000.

KALAMAZOO, MICH.—Bids are wanted until May 13 for building an 8-room school building on Woodward Ave. John De Visser, Secy. Bd. Education.

CHICAGO, ILL.—James Gamble Rogers, Arch., 1314 Ashland Block, has submitted plans to President Harper, of the University of Chicago, for the school of education to be built on the campus. It will comprise several stone buildings, costing $400,000.——Robt. S. Smith, Arch., 187 Dearborn St., is drawing plans for a 4-story apartment house at Ellis Ave. and 61st St., to cost $100,000. It will be 88 × 156 ft. Mr. Smith is also preparing plans for an apartment house to be built on Kimbark Ave. for Dr. W. H. Knapp. It will be three stories, 49 × 84 ft.——S. M. Seator, Arch., 225 Dearborn St., is completing plans for an apartment house at Greenwood Ave. and 62d St., to be three stories, 135 × 100 ft., and to cost $100,000.——Plans have been prepared by J. F. & J. P. Doerr, Archs., 138 Washington St., for a 3-story apartment for Martin Londellus at Indiana Ave. and 58th St., to cost $60,000.——John D. Atchison, Arch., 90 Washington St., has planned an apartment house for Albert Fuchs at Lawrence and Kenmore Aves., to cost $100,000. It will be four stories.——S. M. and Stephen Frazier will build a 4-story building on the Lake Shore Drive, near Barry Ave. It will be 50 × 120 ft. and will cost $50,000.——A permit has been issued to Charles E. Bartley for a 3-story apartment building at 5800-8 South Park Ave., to cost $60,000.

MILWAUKEE, WIS.—Plans have been prepared by Kirchopf & Rose, Archs., 201 Grand Ave., for a 6-story brick warehouse on Fowler St., to cost $60,000. It will be 100 × 105 ft.

CRESTON, IA.—Bids are asked until May 27 for the erection of a postoffice building, to be three stories, 58 × 90 ft. James Knox Taylor, Supervising Arch., Treasury Dept., Washington, D. C.

OMAHA, NEB.—Geo. A. Joslyn has taken out a permit for a $60,000 residence on Davenport St., between 39th and 40th Sts.

PARKSTON, S. DAK.—Bids are asked until May 21 for the erection of a brick church building for the congregation of the Sacred Heart at Parkston. Rev. J. J. Reiland, Parkston, may be addressed.

GRAFTON, N. DAK.—Bids are asked until May 20 for the erection of an institution for feeble minded at this place. J. E. Gray, Secy. Bd. Trustees; Hancock Bros., Archs., Fargo.

MISSOULA, MONT.—Bids are asked until May 10 for the erection of a dormitory for the University of Montana. J. R. Latimer, Pres.

KANSAS CITY, MO.—Chas. W. Armour has purchased a plot of ground at Eighth and May Sts. and will erect a 6-story wholesale warehouse, at a cost of $100,000.

ST. JOSEPH, MO.—The Union Terminal R. R. is back of the scheme to build a freight depot in this city costing about $1,000,000. Geo. F. Swift is said to have interest in the enterprise.

ST. LOUIS, MO.—Henry Ziegenheim, former mayor, has purchased property at Collinsville and St. Louis Aves., East St. Louis, and will erect a 4-story office building on the property. The ground is 100 × 22 ft. The plans have not been completed.

EL RENO, OKLA.—Bids are wanted by Canadian county until May 21 for constructing a new court house; estimated cost, $50,000.

DENVER, COLO.—Bids are asked until June 10 for the completion of the U. S. mint at Denver. James Knox Taylor, Supervising Arch., Treasury Dept., Washington, D. C.

ALAMEDA, CAL.—The board of education has plans for a new high school, to cost $50,000.

BAKERSFIELD, CAL.—The Bakersfield Eagles' Hall & Opera House Co. has been incorporated, with a capital stock of $50,000. It will erect a theatre on Chester and Railroad Aves.

LOS ANGELES, CAL.—The Southern Pacific R. R. will expend about $500,000 in improvements and enlargements of the Arcade Station, according to reports. Julius Kruttschritt is Gen. Mgr., San Francisco.

LOS ANGELES, CAL.—H. W. Hellman, Vice-Pres. Farmers' & Merchants' Bank, will build a 7-story office building, costing $600,000.

NAPA, CAL.—Spencer, Powell & Squires will erect a hotel at Calistoga, to cost about $40,000.

SAN FRANCISCO, CAL.—M. J. Brandenstein & Co., wholesale tea merchants, have secured property at Mission and Spear Sts., for the erection of a 7-story brick building, to cost about $275,000.

STOCKTON, CAL.—Local men will erect a $150,000 hotel here at once, to be five stories in height. Plans have been drawn, and the details are being completed by W. S. Collins, of Los Angeles.

WATER SUPPLY AND IRRIGATION.

PORTLAND, ME.—Capt. A. W. Yates, Q. M., U. S. A., Portland, writes us that no bids were received May 5 for sinking a deep well at Fort McKinley, Me.

KEENE, N. H.—R. H. Porter and others have petitioned the council to secure an increased water supply; cost about $25,000. A masonry dam and 2¼ miles of mains will be required on Roomy Brook. Address Mayor Perry, F. M. Hamilton or N. G. Gurnsey.

ADAMS, MASS.—The question of increasing the water supply is being considered. Address F. N. Case.

LENOX, MASS.—Chas. H. Hale, of Pittsfield, Mass., has been awarded the contract at $10,000 for improving the reservoir at a cost of $10,000.

NORTH ADAMS, MASS.—Reports state that a syndicate is buying land and making surveys in Stamford for a water supply.

PALMER, MASS.—The question of building works instead of buying the property of the Palmer Water Co., which is about 15 years old, for $75,000, is being considered.

WHITMAN, MASS.—The water committee will soon report on the proposed new water supply from Silver Lake, Plympton, to cost about $138,000.

FORT GREBLE, R. I.—Capt. T. H. Slavens, Con. Q. M., U. S. A., Newport, R. I., received the following bids May 3 for constructing a 630,000-gallon concrete reservoir, etc., at Fort Greble, Dutch Island: J. W. Bishop Co., complete, $24,997; P. J. Murphy & Co., Newport, downspout drains only, $6,730; General Construction Co., New York, reservoir, $18,300, or $17,600; downspout system, $3,500; for the work complete, $21,500, or $20,800 (the lesser figures provide for certain changes in the roof construction of the reservoir); Darling & Slade, Fall River, reservoirs, $21,300; downspout drain, $4,475; E. R. Taylor & Co., Boston, reservoir, $26,131; downspout drains, $5,615; F. E. Shaw, Providence, complete, $26,500.

SOUTH NORWALK, CONN.—Salvator Chariot has been awarded the contract, at $3,114 for constructing the Belle Island water main.

STAFFORD SPRINGS, CONN.—C. B. Vorce, of Hartford, Conn., is making surveys for a new storage reservoir for the Stafford Springs Aqueduct Co.

GENEVA, N. Y.—We are informed that this city will soon lay about 7,000 ft. of 12-in. and 2,500 ft. of 6-in. water mains.

GREAT NECK (L. I.), N. Y.—The town board has received a report on the proposed new water supply from the citizens' committee, composed of J. C. Baker, J. B. Wellwood, O. Provost and J. W. Jacobus.

HEMPSTEAD, N. Y.—Bids are asked until May 13 for water pipe, as stated in our advertising columns last week, and not May 31, as stated in the news note. Lott Van de Water, Jr., Clk.

MIDDLETOWN, N. Y.—The Forestburgh Water Co. has been incorporated, with a capital of $10,000, by Jas. Keegan, of Suffern, N. Y., and Elmer Halstead, of Middletown.

NEWARK VALLEY, N. Y.—D. A. Millen, Clk., writes us that the franchise for works will be granted to a private company. Pop., 900.

NORWOOD, N. Y.—R. D. Read writes us that this place is estimating the cost of works.

ORISKANY FALLS, N. Y.—C. W. Clark, Village Clk., writes us that this place will vote May 12 on the question of issuing bonds for works.

OWEGO, N. Y.—G. T. Robertson, Supt., writes us that the new reservoirs contemplated for the water-works, owned by R. D. Wood & Co., 400 Chestnut St., Philadelphia, Pa., will not be built this year. A. W. McCollum is Des. Engr., Philadelphia.

HAMMONTON, N. J.—Reports state that plans and specifications for works have been completed.

MULLICA HILL, N. J.—The Mullica Hill Water Co. has been granted an extension of time until Jan. 1 in which to complete the proposed works.

SOUTH AMBOY, N. J.—The question of building waterworks is being considered. Address Mayor Muirhead and Councilman Dey.

ALLEGHENY, PA.—Bids are asked until May 16 for furnishing two 15,000,000-gallon pumping engines. Robt. McAfee, Dir. Dept. Pub. Wks.

ALLENTOWN, PA.—The Clear Springs Water Co. has been organized to take over the Crane Water Co., the Hanover Crane Water Co., the Allen Crane Water Co., the Alliance Water Co., etc., controlling 45 miles of piping, and furnishing water to Egypt, Cementon, Fullerton, Coplay, Alliance, etc. Capital stock, $500,000. John L. Kemmerer, Pres., Scranton, Pa.; W. L. Watson, Supt., Catasauqua, Pa.

COLUMBIA, PA.—The Columbia Water Co. has adopted the plans of Geo. W. Fuller, of New York, for a new filtration plant, and bids will be asked at once.

LANCASTER, PA.—Chas. W. Cumings writes us that nothing has yet been done regarding the proposed improvements to the works. The people must vote on the question of a loan before anything can be done. Pop., 40,000.

LEBANON, PA.—This city will vote June 24 on the question of issuing $500,000 in bonds for a water pipe line from the South Mountain dams, a sewerage system and street paving.

PERKASIE, PA.—Mahlon Keller, Supt. Perkasie Water Co., writes us that the proposed repairing of the basins will be done under the supervision of E. K. Moyer, Pres., and Mr. Keller. It has not been decided what will be done so far as extensions are concerned.

PITTSBURG, PA.—The question of building an independent system or increasing the water supply in the down-town district is being considered by J. C. Wasson, of the 20th Ward, and Fire Marshal W. D. McGill.

RIDGWAY, PA.—We are informed that this place voted April 29 to issue $12,000 in bonds for a new reservoir and pump station. Further action will be taken by the council May 12. Plans have not yet been prepared.

SLATINGTON, PA.—It is proposed to extend the works, according to reports.

BALTIMORE, MD.—The water board has asked for a loan of $1,000,000 for a new reservoir, improving the water mains, etc.

FROSTBURG, MD.—This place will vote May 13 on the question of issuing $15,000 in bonds for extending the works.

WASHINGTON, D. C.—Bids are asked by the district commissioners until June 7 for furnishing 30, 36, 42 and 48-in. c.-i. flanged pipe specials, as stated in our advertising columns.

WASHINGTON, D. C.—Bids are asked by the district commissioners until May 31 for furnishing 17 distributing boxes and tablet boards for the Trumbull St. pump-

ing station, as stated in our advertising columns.——Jas. Nolan & Sons 721 14th St., N. W., have submitted the lowest bid, at $6,182, for furnishing the treasury department with a filter.

LYNCHBURG, VA.—City Engineer Shanes is reported as making an examination of the route to Pedlar for an increased water supply by gravity.

CAMERON, W. VA.—The question of works is being considered by the council.

CLARKSBURG, W. VA.—The Union Land Co. has been incorporated, with a capital of $500,000, by V. L. Highland, E. B. Delson and S. R. Harrison, to develop land, build water-works, electric plant, etc.

MANNINGTON, W. VA.—The council is reported to have decided to install water meters.

ASHEVILLE, N. C.—Kelly & Felthaus, of this city, have submitted the only bid, at $171,496, for constructing gravity works, exclusive of intake, reservoirs, watershed, etc. Councilman Pawls, Chn. Water Com.

COCHRAN, GA.—Brown & Collier, of Atlanta, Ga., are reported as preparing plans for works and an electric plant.

BIRMINGHAM, ALA.—Geo. W. Fuller, of New York, and Geo. H. Benzenburg, of Milwaukee, Wis., are making a report on the water supply of this city and the appliances of the Birmingham Water Works Co. J. H. Purdy, Pres.; W. M. Drennen, Mayor.

BILOXI, MISS.—This place voted May 7 on the question of issuing $40,000 in bonds for extensions to works.

JACKSON, MISS.—The question of appropriating $5,000 for an artesian well water supply is being considered by the council.

MONROE, LA.—The Monroe W.-W. & Light Co. has voted to dissolve, surrender its charter and sell its property, according to reports.

DE SOTO, FLA.—Bids are asked until May 25 for constructing works, as stated in our advertising columns. F. S. Long, A. Q. M., U. S. A.

MEMPHIS, TENN.—The question of the city purchasing the present works or building a new plant is being considered. E. B. Semaster, Chn. Water Com.

PULASKI, TENN.—It is stated that the Pulaski Water Co. has abandoned the projected artesian well at a depth of nearly 1,800 ft., after sinking nearly $10,000. The company contemplates buying the Elder Mill property, on Richland Creek, and utilizing water power to pump creek water to the reservoirs, in addition to the present pumping station facilities.

McKENZIE, TENN.—D. A. Burkhalter, Chn. Water Com., writes us that the city has a pump, but wants prices for an 800-gallon tank, piping, hydrants, etc., and for laying, etc., for the proposed works. Pop., 2,000.

COLUMBUS, O.—Julian Griggs, Ch. Engr. Dept. Pub. Impvs., writes us that a bill is pending in the legislature to authorize the issuing of $471,000 in bonds to provide funds for a storage dam in the Scioto River and additions to the distribution system.

NILES, O.—Reports state that the council is investigating the cause of the alleged inadequacy of the water supply.

SEBRING, O.—This place is reported to have voted in favor of granting a franchise for works to the water-works company.

TOLEDO, O.—J. D. Cook, C. E., of this city, is urging the city to take steps towards securing an increased water supply from Lake Erie, at a cost of $1,500,000.

WARREN, O.—This place will soon vote on the question of buying the works, and also of building a new electric plant. W. C. Ward, Mayor.

WELLSVILLE, O.—The legislature is considering a bill authorizing this city to use about $63,000 for improving the works. New pumps, mains, etc., are wanted at once. Address Chas. Boyd.

BENTON HARBOR, MICH.—C. R. Wightman, Cv. Engr., writes us that the following bids were received April 30 for furnishing a 2,000,000-gallon power pump: Stilwell-Bierce & Smith-Vaile Co., Dayton, O., 12 × 12-in. triplex pump, $2,100; 14 × 14-in. automatic engine, $665. Henry R. Worthington, New York, 12 × 12-in. triplex pump and engine, $3,877. The Gould Co., Seneca Falls, N. Y., 12 × 14-in. triplex pump and 14 × 14-in. automatic engine, $3,877.

COLDWATER, MICH.—The council will improve the works and electric plant, at a cost of $12,500.

DETROIT, MICH.—The board of trustees of the asylum will soon ask for bids for constructing works, etc., at the asylum. Field & Hinchman, Engrs., Detroit.

CHICAGO, ILL.—Bids are asked until May 13 for water mains, etc., for a number of streets. J. A. May, Secy. Bd. Local Impvs.——Commissioner of Public Works Blockl and City Engineer Ericson have reported that the city loses about $500,000 a year by the damage done to water pipes by electrolysis.

ELGIN, ILL.—Bids are asked until May 21 for constructing a pump shaft, with connecting tunnels to the deep wells, laying water mains, valves, etc. Dr. J. G. Tapper, Pres. Bd. Water Comrs.; R. R. Paskin, Supt.

SAN JOSE, ILL.—This place has voted to issue $1,800 in bonds for a water tower, etc.

NORTH MILWAUKEE, WIS.—E. D. Coddington, Pres. Village Bd., has asked the city of Milwaukee to furnish this city with a water supply.

PLATTEVILLE, WIS.—This place will vote May 13 on the question of issuing $15,000 in bonds for extending the works. E. F. Newton, Mayor; P. D. Hendershot, Jr., Clk.

PRAIRIE DU CHIEN, WIS.—Bids are asked until May 15 for works. Sturtevant & Todd, Engrs., 1208 Fisher Bldg., Chicago; F. J. Evans, Clk.

FORT DES MOINES, IA.—Bids are asked until May 22 for constructing works, sewers, etc. R. B. Turner, Q. M., U. S. A., Des Moines, Ia.

MILFORD, IA.—This place will vote May 12 on the question of building works.

EDEN VALLEY, MINN.—This place voted May 5 on the question of issuing $8,000 in bonds for works.

TOPEKA, KAN.—The hydrographic office of the Geological Survey, Washington, D. C., has asked for an appropriation of $10,000 to sink an artesian test well in Northwestern Kansas. This test may result in the building of an irrigation system.

WAUSA, NEB.—The matter of building works is being considered.

DE SMET, S. DAK.—This place will probably soon vote again on the question of issuing $20,000 in bonds for works.

GOODWIN, S. DAK.—Reports state that this place will soon have works.

CHEYENNE, WYO.—Surveys are being made for the proposed reservoir at Silver Crown, to hold about 32 acres of water. Address Mayor Murray and City Engineer Pease.

BILLINGS, MONT.—The Big Ditch Co. has voted to increase its capital from $64,000 to $100,000 for the purpose of extending its irrigation system.

PLAINS, MONT.—J. A. McGowan has been awarded the contract for 2½ miles of water mains, etc., for the proposed works.

JOPLIN, MO.—Jos. F. Boyd has asked for a 20-year franchise for works.

LIBERTY, MO.—Bids are asked until May 16 for constructing works. Theo. Emerson, Cy. Clk.; Jos. Costello, Mayor.

BARSTOW, TEX.—The Ward County Irrigation Co. has been incorporated, with a capital of $10,000, by G. Otis and M. D'Gano.

ROCKWELL, TEX.—This place will vote May 12 on the question of issuing $12,000 in bonds for works.

VICTORIA, TEX.—The recent election in this place, which voted to issue $7,000 in bonds for a 12-in. water main, has been declared invalid.

BERTHOUD, COLO.—The Sunny Slope Reservoir Co. has been incorporated, with a capital of $6,000, by Jas. Jenson and Seren P. Hansen.

EATON, COLO.—The Larimer & Weld Reservoir Co. has been incorporated with a capital of $300,000, to build a reservoir, etc., on the Box Elder.

STERLING, COLO.—Geo. A. Henderson, it is stated, has formed a company and is preparing to build an irrigation system to be 75 miles and to cost about $500,000.

VICTOR, COLO.—This city is arranging to sell $350,000 of bonds for new works.

ABERDEEN, WASH.—Bids are asked until 8 p. m., May 10, for furnishing water pipe, hydrants, etc. G. A. Black, Cy. Clk.

CHELAN, WASH.—Curtiss & Buckner have been granted a franchise for works.

WALLA WALLA, WASH.—The question of laying a water main from Thomas Springs at a cost of about $100,000 is being considered. Address Councilman J. Z. Smith and Mayor Babcock.

WHATCOM, WASH.—Mayor Hardin has vetoed the ordinance authorizinz a special election to vote on the question of issuing bonds for new water mains.

EUREKA, CAL.—Jesse N. Lentell, C. E., is reported as interested in a scheme to build water-works and a power plant here at a cost of about $400,000.

LOS ANGELES, CAL.—Superintendent Mulholland, of the water-works, expects to develop 500 ins. of water by sinking wells in river bed and connecting with a tunnel through bed rock. The site selected is Buena Vista pumping station on the border of Los Angeles River. A shaft 30 ft. in diameter is being sunk, from which the tunnel will extend 1,700 ft. east, directly across bed of river. Shaft and tunnel will be dug by day labor. When this is completed, wells will be sunk from surface through top of tunnel.

OXNARD, CAL.—Reports state that R. B. Edmondson proposes to build new works.

PETALUMA, CAL.—J. A. McNear has offered to build new works at a cost of about $200,000. The Petaluma Power & Water Co. has offered to sell its works for about $214,000. N. S. Frost is Cy. Engr.; A. Anderson is Chn.

SACRAMENTO, CAL.—This city will soon vote on the question of securing a supply of pure water and the construction of new sewers. Address City Engineer Pierson and Geo. H. Clark, Mayor.

SAN BERNARDINO, CAL.—This city will soon vote on the question of issuing $75,000 in bonds for an increased water supply.

VISALIA, CAL.—The Tagus Ditch Co. has been incorporated with a capital of $10,000 by R. E. Hess, T. Findley and R. H. Parrish.

PHOENIX, ARIZ.—A. P. Davis, Ch. Hydrographer U. S. Geological Survey, has submitted plans to the Maricopa County Water Storage Association for a dam at the Hudson reservoir site on the Upper Salt River. The dam will be 164 ft. thick at the base and 247 ft. high. The U. S. Geological Survey is planning for the necessarw dam under direct charge of A. P. Davis. Masonry work will cost about $900,000, cement $200,000, electric plant and power canal $188,000, cement works $91,000, machinery $200,000. Cement will be manufactured on site. Power for all work connected with construction is secured by construction of 14-mile canal to head in 2,000 ft. tunnel. At the power house below the dam 12,000 HP. is to be developed and transmitted electrically to all parts of works. Bill is before Congress permitting Maricopa county to issue $2,300,000 5% bonds for building the dam, though it is still hoped the government will aid in its construction.

POLAND, ARIZ.—The Poland Extension Mines Co. proposes to build works and an electric plant. C. J. George, Pres., Los Angeles, Cal.

CARSON CITY, NEV.—The Tonopah Water & Power Co. has been incorporated in N. J. with a capital of $1,500,000 by Lewis H. Rogers, of Carson; J. H. Daskell, of Sandy Hill, N. Y., and J. W. Gardner, of Brooklyn, N. Y.

SALT LAKE CITY, UTAH.—The American Water Power, Light & Irrigation Co. has been incorporated with a capital of $300,000 by F. J. Bridge and others to build an irrigation system, etc., on the Fort Hall reservation.

LEWISTON, IDAHO.—This place has voted to buy the works for $80,000, according to reports.

OASIS, IDAHO.—The Pack Saddle Reservoir Canal Co., Ltd., has been incorporated with a capital of $50,000 by Wm. Hill, Albert Golder and Moroni Caldwell.

GLACE BAY, C. B., CAN.—Stairs Son & Monon have been awarded the contract at $33 a ton for furnishing the pipe for the proposed works.

OTTAWA, EAST, ONT.—Reports state that this city may decide to build its own works, as it hardly seems likely that a water supply will ever be secured from the city of Ottawa. Address Reeve Roche.

TORONTO, ONT.—The Heine Safety Boiler Co., Monadnock Block, Chicago, is reported to have been awarded the contract at $11,231 for three boilers for the main pumping station.

SEWERAGE

BRUNSWICK, ME.—Bids are asked by the sewer committee until May 21 for building about 2½ miles of 6 to 15-in. pipe sewers, and also for furnishing about 100,000 brick, 350 bbls. cement and manhole castings, as is stated in our advertising columns. E. W. Bowditch, Engr., 62 Devonshire St., Boston, Mass.

SANFORD, ME.—Plans for sewerage for this place are being prepared by W. M. Ames, C. E., Berwick, Me. According to Mr. Ames, however, it is quite probable that there will be no construction this year.

AMESBURY, MASS.—At a special town meeting May 5 it was voted to lay on the table an article calling for the acceptance of a legislative act to enable the town to construct a system of sewers.

ATHOL, MASS.—W. H. Chapman, C. E., Newport, R. I., has been making a survey of the Lake Park district, preparatory to making plans and specifications for connecting the district with the present sewer system.

EASTHAMPTON, MASS.—The contract for the construction of sewers in Pleasant, Prospect, Lake and Winter Sts. has been let to Frank L. Allen, Worcester, Mass. The work will cost about $2,000 and the pipe $1,000.

METHUEN, MASS.—The contract for the construction of the additional sewer system here has been let to Chas. F. Trumbull & Co., Boston, Mass., for $25,000.

MILFORD, MASS.—Local press reports state that it is quite probable that some definite plan regarding the sewerage question will be adopted at a special town meeting to be held this month.

SOUTH FRAMINGHAM, MASS.—It is reported that additional filter beds for the sewerage system are to be constructed at a cost of $7,000.

SOUTH HADLEY, MASS.—We are informed that the town has voted to build about two miles of sanitary sewers and has made an appropriation of $10,000 for the purpose. Plans of Ellsworth & Kirkpatrick have been adopted and details are being prepared. John J. Kirkpatrick, Engr., Holyoke, Mass.; H. R. Britton, Chn.

WORCESTER, MASS.—Harrison P. Eddy, Supt. Sewers, writes us that all proposed sewer work in Shrewsbury and Greenwood Sts. is to be done by day labor by the sewer department.

WORCESTER, MASS.—Local press reports state that about $100,000 will be spent this year in the extension of the Quinsigamond sewage plant. The sewer committee is considering the question of either increasing the number of filter beds or treating the sewage by the septic system.

CENTRAL FALLS, R. I.—The council has passed resolutions appropriating $4,500 for building sewers in Richardson St. and Hedley Ave., and referred resolutions appropriating $2,700 for sewers in Mowry and Parker Sts. to the finance committee.

BRIDGEPORT, CONN.—Bids are asked until May 15 for 660 ft. of 36 × 54-in. brick sewer, as stated in our advertising columns. C. E. Williams, Dir. Pub. Wks.

BROOKLYN, N. Y.—Bids are asked by J. Edward Swanstrom, Boro. Pres., until May 14 for furnishing labor and material for rebuilding a 16-in. cast-iron outlet sewer in 15th St. Bids are also asked until the same date for constructing 14 sewer basins; also for constructing sewer in 19th St. and a sewer in De Graw St.

DELHI, N. Y.—It is reported that plans for a new sewer in this village have been prepared.

FULTON, N. Y.—O. C. Breed, Cy. Engr., writes us that nothing has been done yet regarding the West Side sewers, and that nothing can be done for a month to come, but after that there is a prospect that things may develop and the work be pushed.

ILION, N. Y.—Bids are asked until May 19 for furnishing and laying about $6,450 ft. 8-in. vitrified pipe sewer, constructing seven manholes, etc. D. D. Osgood, Clk. Sewer Comrs.

JAMAICA, N. Y.—The contract for building the Lincoln Ave. sewer main has been let to Peace Bros., Flushing, N. Y., for $13,106. Other bidders were: T. F. Tuohy & Co., Flushing, $13,577; U. S. Construction Co., Long Island City, N. Y., $13,621. The contract calls for the building of 1,984 ft. of 24-in. sewers.

NORWOOD, N. Y.—Reports state that G. W. F. Smith, C. E., Potsdam, N. Y., has about prepared plans for a system of sewerage and water-works for this place, and that the matter is to be submitted to the voters soon.

NYACK, N. Y.—Press reports state that the matter of a surface drainage system for South Nyack is to be voted on at a special election, Rudolph Hering, C. E., having submitted plans for a system which will cost about $20,000 to install.

ROCHESTER, N. Y.—Ordinances have been adopted by the city council for the construction of a sewer in Hardt Pl., Ambrose and Cliff Sts., at a cost of $2,800, and a sewer in Weddale Way, together with a cement walk, at a cost of $4,000.

ROME, N. Y.—The contract for a storm sewer in North James St. has been let to Frank George for $2,500.

WATERTOWN, N. Y.—W. J. Hayes & Sons, Cleveland, O., were the highest bidders for the city's $75,000 issue of sewer, highway and pavement bonds.

KEARNEY, N. J.—Bids are asked until May 14 for constructing pipe sewer in Hickory and Dukes Sts. C. M. Borrie, Town Surveyor, 757 Broad St., Newark; T. C. Wildman, Town Clk.

WOODSTOWN, N. J.—Surveys for a system of terra cotta pipe sewers one mile in length, to be built by a private company, have been completed by Engineer Josiah Miller, Salem, N. J.

EDWARDSDALE, PA.—Local reports state that the borough engineer is making surveys preparatory to the construction of sewers, which will be commenced June 1.

LEBANON, PA.—At a special election to be held June 24 the question of a loan of $500,000 for a sewerage system, street paving, etc., will be voted upon by the taxpayers.

SWISSVALE, PA.—The borough engineer has been authorized to call for bids for constructing a system of sewers, the final cost of which is to be $60,000.

WASHINGTON, PA.—The committee on sewers have reported advocating the purchase of 8½ acres of land for a site for the erection of a sewage disposal plant.

WILLIAMSPORT, PA.—The question of a loan of $81,000 will be decided at an election May 13. The money is to be used, with other funds in hand, for the construction of the Locust St. conduit and as much as possible of the other storm-water sewers.

GAINESVILLE, GA.—An election was held May 6 to vote on the issuance of $50,000 of bonds $20,000 of which are for sewers.

BESSEMER, ALA.—The contract for 16 miles of sanitary sewerage has been let to W. J. Long, for $36,681.

NEWPORT, KY.—The contract for the trunk sewer north of Sixth St. has been let to Van Sandt & Meeds, at $19,467, and the contract for the sewer south of Sixth St. was let to Thos. P. Strack, at $7,283.

CINCINNATI, O.—The state board of health has approved plans for sewer systems at Wapakoneta and for the Soldiers' and Sailors' Orphan Asylum at Sandusky.

CLEVELAND, O.—Bids are asked until May 29 for constructing main intercepting sewers in Lake St. between Water and Muirson Sts., as stated in our advertising columns. Chas. P. Salen, Dir. Pub. Wks.

CLEVELAND, O.—Bids are asked until May 27 for the construction of a main intercepting sewer in Glenville. In our last week's issue the time of letting of this contract was given as May 20, instead of May 27.

CLEVELAND, O.—Robt. Fisher, Contract Clk., informs us that the following bids were received May 1 for constructing Gilbert St. sewer: The Clements Construction Co., $74,273; A. J. Townsend Co., $99,524; C. T. McCracken Co., $102,396; John Potts Co., $115,113; John Wagner, $104,518; Beers Doolittle, $76,450; Reaugh Construction Co., $90,251; J. Connelly & Son, $93,664.

LAKEWOOD, O.—This place has recently sold $50,000 of sewer bonds.

SPRINGFIELD, O.—The council and board of public affairs have approved of the plans for the West Main St. sewer. The proposed sewer is to start at Yellow Springs St. with a 12-in. pipe and is to end in Buck Creek with a 36-in. outlet. The cost is estimated at $37,500.

EAST CHICAGO, IND.—Plans for a sewerage system for this place, to cost $68,000, have been made by Alvord & Shields, Hartford Bldg., Chicago.

TERRE HAUTE, IND.—The following bids for the construction of sewers have been received by the board of public works: D. H. Morton & Co., $3,232; Jesse Robertson, $3,740; Braxton Cox, $4,176; J. E. Voorhees & Co., $4,425.

GRAND RAPIDS, MICH.—L. W. Anderson, Cy. Engr., writes us that 2½ miles of 2½ to 5-ft. concrete sewers have been ordered and plans are under preparation. The estimated cost of the work is $95,000.

PEORIA, ILL.—A local press report states that legislation has been enacted for the following sewers to be constructed this season: Chestnut St., 7,695 ft. 8-in. to 3-ft., $12,386; Persimmon St., 8,326 ft. 8-in. to 4-ft., $15,211; Sewer District No. 1, 16,047 ft. 8-in. to 4-ft., $24,735.

GREEN BAY, WIS.—An ordinance has been introduced in the council to issue $8,000 of bonds to pay for the sewer to be built in the sixth sewer district, plans and specifications for its construction having been adopted.

MILWAUKEE, WIS.—The county committee on public buildings has been authorized to advertise for plans for a new sewerage system in the county court house.

STEVENS POINT, WIS.—The council has authorized an issue of $11,000 of sanitary sewer bonds.

DES MOINES, IA.—A press report states that it has been decided by the state board of control to erect sewage disposal plants at the state institutions at Mitchellville, Mt. Pleasant and Davenport.

MASON CITY, IA.—Bids are asked until May 12 for constructing about $5,100 ft. of sewers. J. H. McEwen, Cy. Clk.

MONTICELLO, IA.—Bids are asked until May 10 for furnishing and laying about 9,000 ft. of 6 to 12-in. pipe sewer, manholes, etc. A. Kempf, Cy. Clk.

MUSCATINE, IA.—The contract for building a sewer in South Muscatine has been let to W. S. Edner, Cedar Rapids, Ia., for $1,986.

SIOUX CITY, IA.—A press report states that City Engineer Lewis is preparing plans for a big sanitary sewer to drain North Sioux City south of 18th St. and east of Isabella St. The sewer will be over three miles in length.

OMAHA, NEB.—The contract for about two miles of sewer construction, to cost about $15,000, has been let to James P. Connolly.

KANSAS CITY, MO.—The contract for the construction of a sewer from 27th St. to the Goosneck sewer has been let to Fred. Feigel, for $91,985.

MUSCOGEE, IND. TER.—Burns & McDonnell, Engrs., Kansas City, Mo., have been engaged to prepare plans and specifications for sewers and water-works. Bonds have been sold, $150,000 for water and $25,000 for sewers.

PUEBLO, COLO.—Resolutions have been adopted for the construction of a new storm and sanitary sewer system, and John F. Hunter, Denver, Colo., was ordered employed as consulting engineer.

FRESNO, CAL.—The contract for sewering the additions has been let to S. B. Toombs, for $15,700.

LONG BEACH, CAL.—The question of a new sewerage system is being agitated.

LOS ANGELES, CAL.—The council has passed ordinances for holding special elections to vote on the issue of outfall and internal sewer bonds to the amount of $991,530 and storm bonds to the amount of $404,440.

PASADENA, CAL.—Resolutions have been adopted ordering the laying of about 7,000 ft. of vitrified salt-glazed 8-in. pipe sewer.

GARBAGE DISPOSAL—STREET CLEANING

WILMINGTON, DEL.—The Decarrie Mfg. Co., of Minneapolis, Minn., has asked for a franchise to build a crematory to cost $25,000.

BALTIMORE, MD.—Frank A. Furst, of the syndicate which has the contract for collecting and disposing of the garbage, is understood to have selected a site for the crematory and is now inspecting various makes of plants.

CANTON, O.—The state board of health has approved plans for the proposed garbage disposal plant for this city.

SALT LAKE CITY, UTAH.—The Dixon Garbage Crematory Co., of Toledo, O., has been awarded the contract at $12,391 for constructing a crematory.

STREETS AND ROADS.

ANDOVER, MASS.—At a special meeting $2,500 was appropriated for the laying out of a new street from Elm to Summer St. Action on the macadamizing of Main St. was postponed for one week.

BOSTON, MASS.—Orders for asphalting the roadways on West Front, E. and Silver Sts., and for resurfacing the roadways on various other streets and avenues were recently passed by the aldermen.

BROCKTON, MASS.—The council has passed an order appropriating $20,000 for highway improvements.

CAMBRIDGE, MASS.—Bids are asked until May 12 for furnishing about 300,000 vitrified paving bricks; also for furnishing about 175,000 No. 1 granite paving blocks. C. A. Brown, Supt. Sts.

SOUTH FRAMINGHAM, MASS.—The county commissioners have adjudged that convenience requires that Eastern Ave., from the Natick town line to Main st., should be relocated and widened.

WOBURN, MASS.—W. W. Wade, Water Registrar, writes us that plans have been prepared for widening South Main St. to a width of 75 ft., but the council is waiting to hear from the B. & N. St. Ry. as to what part of the expense will be borne by them before commencing work.

WORCESTER, MASS.—A local press report states that all the bids recently received for furnishing the street department with granite block paving for this year have been rejected on the ground that they were too high. The bids received were as follows: Webb Granite & Construction Co., $1.65 per yd.; Troy White Granite Co., $1.65 per yd.; Stevens Granite Co., of Milford, N. H., $1.80 per yd.; J. W. Bishop & Co., $1.55 per yd.

NEW HAVEN, CONN.—The paving commission has approved an order for a crushed stone pavement in Putnam St., to cost $6,000. Work is to be started at once.

WATERBURY, CONN.—The board of public works has been granted permission to pave on North Main St. at a cost not to exceed $7,200.

BROOKLYN, N. Y.—Bids will be received by the Brooklyn Borough president until May 14 for about 23,836 sq. yds. granite pavement, 35,350 sq. ft. cement sidewalk, curbing, grading, etc., on Pitkin Ave. Bids will also be received at the same for regulating and repaving with granite pavement on Rockwell Pl., Degraw St., Tiffany Pl., Third Ave., Court St., Morgan Ave., 42d St. and Richardson St.

GENEVA, N. Y.—W. S. Wood, Secy., informs us that the laying of 5,600 ft. brick paving in this city is projected.

LITTLE FALLS, N. Y.—Plans and specifications for the paving of Main St., prepared by City Engineer Lansing, have been approved by the board of public works.

CAMDEN, N. J.—Bids are asked until May 14 for building the Stoys Landing macadam road, as stated in our advertising columns. Edw. S. Dobbs, Chn. Stone Rd. Com.

HOBOKEN, N. J.—Bids are asked until May 28 for paving Monroe St., between Fifth and Eighth Sts., with Belgian block pavement, together with various other improvements to the same street. John Haggerty, Cy. Clk.

NEWARK, N. J.—The board of works committee has adopted resolutions to advertise for bids for paving, curbing or guttering of the following streets: Mott St., South St., Crane St., Baldwin St., Lang St., Wakeman Ave., West Kinney St., Grove St., Market St., Breintnall St. and Bank St.

WISE, VA.—It is reported that this place has voted in favor of a bond issue of $10,000 for street and sidewalk improvements.

GAINESVILLE, GA.—The question of a $50,000 bond issue, $10,000 of which is for street improvements, was voted on at an election May 6.

PRATTVILLE, ALA.—Bids are asked until May 14 for grading and graveling about one mile of the air line road through Bear Creek swamp. G. S. Livingston, Judge of Probate.

MEMPHIS, TENN.—The question of paving several streets in this city, at an early date, is being considered.

LOUISVILLE, KY.—An ordinance has been before the council providing for about two miles of granitoid sidewalks on Fourth Ave.

CINCINNATI, O.—Bids are asked until May 27 for asphalting and other improvements on Guy St. Robt. Allison, Pres. Bd. Pub. Ser.

CLEVELAND, O.—The contract for improvements on the State Road and Miles Ave. Road has been let to M. F. Bramley & Co., at a total of $121,520. Each road will be macadamized.

COLUMBUS, O.—The board of public works has ordered the repair of 42 streets at an estimated cost of $10,140.

BRAZIL, IND.—The following bids were received for grading and graveling High St: William Dorsey, $6,185; Keegan Bros., $5,973; Fitzpatrick Bros., $6,632. The contract was awarded to Keegan Bros.

ELMWOOD PLACE, O.—At a recent election 159 votes were cast in favor of a $12,000 street improvement bond issue and 155 against.

FOWLER, IND.—Bids are asked until May 14 for grading, curbing and paving with brick on East Fifth St. Frank Carter, Town Clk.

BENTON HARBOR, MICH.—Bids are asked until May 19 for laying about 10,000 sq. yds. sheet asphalt paving, as stated in our advertising columns. C. R. Wightman, Cy. Engr.; W. J. Banyon, Cy. Clk.

ANN ARBOR, MICH.—Bids are asked until May 21 for grading, curbing and paving State St., as stated in our advertising columns. E. W. Groves, Cy. Engr.; J. E. Harkins, Cy. Clk.

DETROIT, MICH.—A press report states that the council committee on streets has directed the public works department to readvertise for the repaving of Haigh Ave., as the bids received for this work were too high.

DETROIT, MICH.—The report of the committee on repaving has been adopted, with a few slight changes by the board of estimates. The total cost of the repaving allowed aggregates $383,375, of which $124,776 is for repaving with cedar, $119,914 with brick, $61,564 with sheet asphalt, $69,308 for block asphalt and $7,813 for granite asphalt.

GRAND RAPIDS, MICH.—The board of public works has directed the clerk to readvertise for bids for paving Cherry St. with sheet asphalt. The board has also approved plans and specifications for grading and graveling Ella Ave. and has directed the clerk to advertise for bids. An estimate of $8,536 as the cost of grading and graveling on Godfrey Ave. has been made and presented to the board.

MIDLAND, MICH.—Bids are asked until May 27 for about 11,360 cu. yds. excavation, 15,091 sq. yds. macadamizing, 7,952 ft. guttering and curbing and various other work, as is stated more fully in our advertising columns. B. H. Carter, Pres. Bd. Pub. Wks.

FREEPORT, ILL.—The following bids were received for paving on Galena St. and cross streets between Galena and Stephenson Sts.: Smith & Brown, Chicago, $33,726; J. O. Jones, Racine, Wis., $33,172; Galloway & Houston, Chicago, $34,404; Thompson & Case, Peoria, $33,127; J. A. Heineman & Co., Chicago, $32,086; W. J. McAlpine, Dixon, Ill., $36,551; Harding, Nelson & Johnson, Racine, $33,980; G. Maffioli, Rockford, Ill., $33,442. The contract was awarded to J. A. Heineman & Co.

PEORIA, ILL.—It is reported that this city will lay this year about 22,900 ft. of brick pavement at a cost of $157,605. About 5,711 sq. yds. of asphalt will also be laid at a cost of $12,500.

CEDAR RAPIDS, IA.—The council has ordered that several streets be paved with brick on macadam foundation, and a hearing is to be held May 9 for objections to the proposed improvements.

MARSHALLTOWN, IA.—Mayor L. B. Jones writes us that the matter of paving in this city will come up May 12, when a resolution of intent will be introduced asking the street railway to pave their portion of the streets.

ST. PAUL, MINN.—The contracts for brick paving in Decatur and Beaumont Sts. has been let to James Forrestal and the contract for curbing, filling and sodding Avon St. has been let to Fielding & Shepley, for $6,280.

KANSAS CITY, MO.—Ordinances for paving 26th and Spruce Sts. and for constructing granotoid sidewalks on Garfield and 31st Sts. have been passed.

MARSHALL, MO.—Plans and specifications for macadamizing on West Court and Arrow St. have been approved by the council.

ST. LOUIS, MO.—The board of public improvements has approved ordinances for the improvement with vitrified brick of nine streets and avenues.

COLFAX, WASH.—Howard Bramwell, Cy. Clk., writes us that the city of Colfax is planning to macadamize a portion of its streets this season, and is now advertising for bids for a rock crusher and roller.

SEATTLE, WASH.—Bids are asked until May 11 for sidewalking, curbing and paving on Fifth Ave., paving with wooden blocks on Madison and Marion Sts., and various improvements to other streets. C. H. Bigley, Secy. Bd. Pub. Wks.

TORONTO, ONT.—City Engineer Rust has recommended the following local improvements: Asphalt pavement on Phoebe St., $7,590; macadam roadways, Munro St., $7,560; Marlborough Pl., $1,350; concrete walks, on Elm Ave., Spadina Ave., Bloor St. and Bellair St.

MANUFACTURING PLANTS

BIDDEFORD, ME.—The Saco & Pettee-Matthews Co. contemplates extensive enlargements to its plant. The council has voted to exempt from taxation for 10 years any enlargements.

BENNINGTON, VT.—Holden, Leonard & Co. will build an elevator as an addition to their present plant.

BURLINGTON, VT.—The contract for the construction of the plant of the Lumiere North American Co. has been let to Chapman & Co., of Providence, R. I. The cost of the buildings will be about $100,000.

PITTSFIELD, MASS.—Reports state that the capacity of the new electrical plant of the Stanley Co. at this place will be enlarged, and that the work will be accomplished as speedily as possible.

HARTFORD, CONN.—An addition will be made to the small tool department at the plant owned by Pratt & Whitney. The new structure will be four stories high, 125 × 80 ft., of mill construction. The cost of the new building and equipment will be about $100,000.

NORWALK, CONN.—The firm of Joseph Loth & Co. will locate a $55,000 silk factory in this place, to be built on a site given by the town.

BUFFALO, N. Y.—It is reported that the Lackawanna Steel Co. will build a large coke plant as an addition to its furnaces. About $5,000,000 is to be expended on the new work, which is to be started as soon as the site is selected.

CAMDEN, N. J.—The Nonpareil Cork Mfg. Co., of Camden, will make extensive improvements to its plant at the foot of Jefferson St. Three buildings, 40 × 35, 25 × 39 and 100 × 64 ft., will be erected.

HARRISON, N. J.—Plans are being prepared for a shop building as an addition to the present plant of the Hyatt Roller Bearing Co., in Harrison. Samuel M. Green, Holyoke, is Arch.

BRISTOL, PA.—Plans are being prepared by Seymour and Paul A. Davis, 3d, Archs., 907 Walnut St., Philadelphia, for a 3-story, 50 × 70-ft. addition to the factory of Wm. H. Grundy & Co., of 108 South Front St., Philadelphia, in this city. It will be fireproof, of stone and iron construction, costing $30,000.

DANVILLE, PA.—Lockwood, Green & Co., Archs., 93 Federal St., Boston, Mass., have plans under way for a 4-story brick cotton mill in this place.

FRANKLIN, PA.—The Franklin Rolling Mill & Foundry Co. is being organized here with a capital stock of $750,000. Application will soon be made for a charter. The chief product of the new company will be steel tripartite poles for telegraph and telephone wires. Operations will begin with 150 men. Clarence W. Mackey, C. D. Bleakley and J. W. Rowland are interested.

KUTZTOWN, PA.—Irwin Bair, Secy. Kutztown Foundry & Machine Co., Fidelity Bldg., Philadelphia, writes that the company is erecting an additional plant at this place, which is expected to be completed by Jan. 1. The new plant will consist of a foundry, 135 × 200 ft., a cleaning house, 35 × 80 ft., and a machine shop, 100 × 100 ft., to be increased as soon as the additional space is necessary, to 400 ft. in length. The entire plant will be operated by electric motors direct connected to large machines and operating line shafts for the smaller machines. The contracts have been placed for the structural material, electric cranes, engines, motors, generators, boilers, blowers and cupolas. Contracts are yet to be placed for the lumber, bricks, building material, such as cement, stone, etc., sand blast, various foundry equipments, jib cranes, etc.

PHILADELPHIA, PA.—It is reported that the Sanquoit Silk Co., now located at Fifth St. and Columbia Ave., will move its plant to Nicetown. The company has secured five acres of land for the site.——Plans are about completed for the factory and warehouse for Oscar M. Stoppacker at 13th and Quarry Sts. The building will be three stories, 14 × 60 ft.——The officers of the Wm. Cramp & Sons Ship & Engine Building Co. have decided to expend $4,000,000 for improvements at the company's yards.——Hales & Ballinger, Archs. and Engrs., 1200 Chestnut St., have prepared plans for an additional manufacturing building for Ivins, Dietz & Metzger Co., located at 7th St. and Lehigh Ave. The building will be one and three stories, 400 × 65 ft. It will be equipped with two elevators and other modern conveniences. The architects are now taking bids. The same architects are ready for estimates for a 6-story, 190 × 130-ft. factory addition for Tuttleman Bros. & Tagin at American and Jefferson Sts., to cost $50,000.——Rawson Mfg. Co., 21st St. and Glenwood Ave., will soon award the contract for a 5-story, 48 × 175-ft. factory building at Allegheny Ave. and Glenwood St., to cost $35,000. Plans have been completed.

PITTSBURG, PA.—Work will be started within a few weeks on the new building for the Westinghouse Electric & Mfg. Co. at East Pittsburg, which will double the capacity of these works at that place, and cost about $1,500,000. The building will be 1,700 × 1,800 ft., of steel construction. The contract for erecting the new structure has been let to James Stewart & Co., and the steel will be supplied by the American Bridge Co. It is estimated that 9,000 tons will be used in the building, and that from 4,000 to 5,000 additional men will be employed.

TARENTUM, PA.—A syndicate, with C. C. Smith, Pres., and Geo. W. Eisenheis, Treas., of the Union Steel Co.; J. W. Anderson, Gen. Mgr. Carbon Steel Co., and Judge W. P. Potter, all of Pittsburg, at its head, has purchased 20 acres of ground at this place for a plant to cost about $300,000. The new concern will be known as

the Railway Steel Casting Co. The plant will comprise main buildings, 340 x 140 ft. in size, and five or six smaller ones. It is expected to have the new works in operation by October.

WILMINGTON, DEL.—Wm. Copeland Furber, Arch., 421 Chestnut St., Philadelphia, Pa., has completed plans and called for bids for a new plant in this city for J. E. Rhodes & Son. It will include a 3-story factory, a 1-story boiler house, and a 1-story tannery.

ANDERSON, S. C.—It is reported that the construction of the Chiquola cotton mill will be started at once. The company is capitalized at $200,000. James D. Hammett is Pres. and R. M. Shirley is Vice-Pres.

BIRMINGHAM, ALA.—Ro. Preston Means, Pres. the Means & Fulton Iron Works, Birmingham, writes us that he is investigating the putting in of a galvanizing outfit for galvanizing and protecting sheet iron, and would like to correspond with parties manufacturing machinery for such work, and also with parties who can advise the manner in which such work is done.——The Southern Sewer Pipe Co. has been formed with a capital stock of $60,000, for the purpose of building a plant for the manufacture of sewer pipe, tiling, underground conduits for wires and clay goods. The plant is to cover several acres and will consume about eight months in construction. S. L. Russell is Pres. and Gen. Mgr.

SELMA, ALA.—The stockholders of the International Oil Co. have decided instead of rebuilding the plant which burned two months ago to erect a phosphate plant. C. W. Hooper and Ernest Lamar have been authorized to proceed with the erecting of a plant to cost about $100,000.

LOUISVILLE, KY.—The Peaslee-Gaulbert Co. has decided to rebuild all its warehouses and factories at 15th St. and Portland Ave., on a more extensive scale. Plans have already been started by Architects Kenneth McDonald and J. B. Sheblessey for two more warehouses, each four stories high, of slow-burning construction, to cost in the aggregate $160,000.

HAMILTON, O.—The Franklin Mill of the Sterling Paper Co. was destroyed by fire on April 28, at a loss of about $100,000.

WARREN, O.—The organization of a cereal company to erect a plant here costing about $300,000 and employing 300 hands has been effected. J. N. Neal, Coldwater, Mich., and K. B. De Voe, Warren, are incorporators.

DETROIT, MICH.—The Detroit Iron & Steel Co., which is to build a blast furnace on Zug Island, has filed articles of incorporation with a capital stock of $1,500,000. D. R. Hanna, Cleveland, O.; C. B. Warren, Detroit, and Fred. R. Hazard, Solvay, N. Y., are stockholders.

CHICAGO, ILL.—Reports state that the American Bridge Co. will consolidate its plants at Lassig, Milwaukee, Lafayette and Chicago into one plant, to be located in South Chicago. The new plant will be a reproduction of the company's proposed plant at Economy, Pa., and will cost in the neighborhood of $3,000,000.

MADISON, ILL.—The plant of the Hagers Steel Co., at Madison, employing 400 men, was destroyed by fire, at a loss estimated at $250,000.

DULUTH, MINN.—The National Iron Co. plans to erect a new brick building this summer to be two stories high, 400 x 250 ft., containing a foundry, pattern rooms and a machine shop.

CHANUTE, KAN.—Walter S. Dickey, Pres. W. S. Dickey Clay Mfg. Co., has purchased 148 acres of land adjoining the city limits and has closed a contract for the erection of the plant at this place.

BALLARD, WASH.—The Jupiter Steel & Tool Co. has secured a site for its plant at Meadow Point, north of Ballard. Colonel Wilson, the promoter of the new enterprise, states that an extensive plant will be put up by fall.

TORONTO, ONT.—The Atlantic Pulp & Paper Co., of Toronto, has been organized with a capital of $3,000,000. The mills of the company will be situated on the Little Cascapedia River, at New Richmond, on the Baie des Chaleurs, where it is proposed to erect a paper mill with a daily capacity of 54 tons, a ground wood pulp mill with a daily capacity of 50 tons, and a sulphite pulp mill with a daily capacity of 40 tons. The wood to be used will be principally spruce. The properties and limits acquired by the company contain about 302 sq. miles.

MISCELLANEOUS CONTRACTS.

ROAD ROLLER.—Westport, Mass.—This town has appropriated $2,000 for the purchase of a road roller.

HOSE.—New York, N. Y.—Bids are asked until May 9 by the fire commissioner, East 67th St., for furnishing 60,700 ft. of fire hose.

STONE CRUSHER, ETC.—Sidney, N. Y.—This place voted May 6 on the question of appropriating $3,250 for a stone crusher and outfit.

STREET SIGNS.—New York, N. Y.—It is reported that the board of estimate and apportionment is to appropriate $40,000 for 2,200 new street signs for Manhattan Borough.

CANAL.—Harvey, La.—Bids for the construction of locks at Harveys Canal will be received until May 31, as stated in our advertising columns. Horace H. Harvey, Secy.

CRIB WORK.—Buffalo, N. Y.—Bids are asked until May 21 for repairing and improving with concrete the crib structure at the Monroe Light Station, Mich. Maj. T. W. Symons, U. S. A.

SPRINKLING TRUCKS.—New York, N. Y.—Bids are asked by the Street Cleaning Dept., 21 Park Row, New York, until May 12 for furnishing and delivering 29 sprinkling trucks.

BROOK IMPROVEMENTS.—Syracuse, N. Y.—A bond issue of $75,000 for the improvement of Harbor Brook, and one of $300,000 for the improvement of Onondaga Creek have been authorized.

PORTLAND CEMENT.—New York, N. Y.—Bids are asked by the commissioner of docks and ferries, Pier A, North River, until May 15 for furnishing about 10,000 bbls. Portland cement.

DOCKS.—Lorain, O.—It is reported that the Baltimore & Ohio R. R. Co. has bought a tract of land and has plans providing for 700 ft. of new dockage, to be used in the shipment of coal.

LUMBER.—New Orleans, La.—Bids are asked until May 13 for furnishing lumber and timber for wharf and roadway repair and construction for one year. Hugh McCloskey, Pres. Port Comrs.

PONTOONS.—New York, N. Y.—Bids are asked until May 10 for labor and material for building two pontoons, platform, etc., and for repairing 35 pontoons at 30th St. Jacob A. Cantor, Boro. Pres.

QUAY WALLS.—Mare Island, Cal.—The contract for the construction of two piling and concrete quay walls, to cost $54,000, has been let to Healy, Tibbitts & Co., 22 Market St., San Francisco, Cal.

CASTINGS.—Washington, D. C.—Bids are asked until May 12 for furnishing during the year beginning July 1, 1902, brass and iron castings. Wm. M. Meredith, Dir. Bureau Engraving and Printing.

FIRE ALARM SYSTEM.—Beaumont, Tex.—E. E. Eastham, Ch. Fire Dept., is said to be preparing specifications for a complete fire alarm system. The specifications are to be presented to the council for action.

TRAMWAY.—Toledo, O.—Bids are asked until May 14 for furnishing piling lumber and other material and the construction of a tramway at Bay View. Plans of W. R. Wakefield, County Comr., Waldport; J. H. Lutz, Co. Clk.

RIVER IMPROVEMENTS.—Lorain, O.—A resolution has been passed by the council calling for an election May 21 to vote on the issuance of $200,000 of bonds for straightening the course of Black River.

TELEPHONE LINES.—Syracuse, N. Y.—It is reported that the American Tel. & Telgh. Co., of New York, will soon begin the construction of long-distance telephone lines between Syracuse and Canadian cities.

FURNACES.—New Orleans, La.—A press report states that a test of Beaumont oil as a fuel has proved so successful that the United Fruit Co. has decided to change the furnaces of all its vessels, to enable them to use oil instead of coal.

EXCAVATING.—Charleston, Mo.—C. S. Reynolds, county surveyor, writes us that bids will be received May 12 for about 250,000 cu. yds. of earth or other substance excavating from a ditch survey. Dredge-boat contractors preferred as bidders.

COAL AND ASH POCKETS.—Wasaington, D. C.—Bids are asked by the district commissioners until June 7 for constructing coal and ash pockets of concrete and steel in Trumbull St. pumping station, as stated in our advertising columns.

DREDGING PLANT.—Baltimore, Md.—It is reported that there is some prospect that the city may own a dredging plant, Mayor Hayes having instructed Maj. N. H. Hutton, Ch. Engr., Harbor Board, to prepare an estimate of the cost of such a plant.

TELEPHONE IMPROVEMENTS.—Philadelphia, Pa.—The stockholders of the Bell Tel. Co. have decided to increase its capital stock from $8,000,000 to $12,000,000. It is said that $2,000,000 of this increase is to be spent this year in improvements.

WHARF EXTENSION.—Ottawa, Ont.—Bids are asked until May 9 for constructing an extension to the wharf at St. Laurent, Isle d'Orleans, Que. J. L. Michaud, Res. Engr., Merchants Bank Bldg., Montreal; Fred. Gelinas, Secy. Pub. Wks., Ottawa.

COPPER CABLES, ETC.—Chicago, Ill.—Bids are asked until May 14 for furnishing about 15,000 ft. No. 000 T. B. W. P. cable, 15,000 ft. No. 0000 T. B. W. P. cable, besides various other articles for the fire alarm office. F. W. Blocki, Comr. Pub. Wks.

RIVER IMPROVEMENT.—Philadelphia, Pa.—It is reported that the Philadelphia Yacht Club are to expend $15,000 for various improvements to their property, such as building larger bulkhead and pier. It is also planned to deepen and widen the river basin.

ROCK CRUSHER, ETC.—Colfax, Wash.—Howard Bramwell, Cy. Clk., writes us under date of April 22, that the city is advertising for bids for a rock crusher and horse roller. This item was published in our last week's issue, but the name of the city was omitted.

BOATS.—Charleston, W. Va.—We are informed that the following bids were received May 2 for furnishing boats, advertised in Engineering News, (a) being bid for dump boat, (b) for service boat and (c) for two push boats: B. T. Flesher, Middleport, O., (a) $2,250, (b) $650, (c) $5,5[illegible]; Oscar F. Barrett, Cincinnati, O., (a) $3,465, (b) $1,325, (c) $1,200.

MUNICIPAL TELEPHONE.—San Francisco, Cal.—City Engineer Grunsky has prepared plans and estimates of the cost of a municipal telephone system. The total cost estimate for office buildings, office and telephone equipment, conduit system, etc., is $2,500,000. The plans provide for 25,000 individual telephones with an ultimate capacity of 43,000.

DOCK.—Calumet Harbor, Ill.—We are informed that the following bids for dock construction, advertised in Engineering News, were received May 1: Bennett & Schnorbach, Muskegon, Mich., $15,806; Fitz Simons & Connell Co., Chicago, Ill., $12,098; Hausler & Lutz Towing & Dock Co., Chicago, Ill., $11,042; Dennis McCarthy, Chicago, Ill., $11,796.

DITCH.—Grand Forks, N. Dak.—George Ralph, State Drainage Engr., has been directed to proceed with the survey for the Sandsville-Higdern ditch in northern Polk county. The main ditch is to be about 12 miles long and from 30 to 40 ft. in width at the bottom. In addition, there will be about 30 miles of subditches. It is thought that actual work of excavating will be commenced by Aug. 1.

REFRIGERATING PLANTS.—St. Louis, Mo.—We are informed that the following bids were received by Maj. Thos. L. Casey, U. S. Engrs., for building and installing two refrigerating plants on U. S. snagboats "H. G. Wright" and "J. N. Macomb": Sterling Iron Works, Springfield, Mo., $7,140; John F. Maynard, St. Louis, $7,400; A. H. Barber Mfg. Co., Chicago, $7,680; New Jersey Foundry & Machine Co., New York, $7,100. The bid of the New Jersey Foundry & Machine Co. was accepted.

U. S. POSSESSIONS AND CUBA.

ELECTRIC PLANT.—Valdes, Alaska.—Roy Rutherford and Charles Crawford are reported to have been granted a franchise for a power plant.

PRISON.—Alcatraz Island, P. I.—Quartermaster-General Ludington, U.S.A., and Col. Handbury, U. S. Engr., have reported in favor of building a new government prison at Alcatraz Island.

ELECTRIC TRAMWAY.—Manila, P. I.—Reports state that the Manila Tramway Co., recently purchased by a N. Y. syndicate, will build an electric road at once. Address Rafael Reyes, of Manila.

GOLD MINING.—Alaska.—Geo. D. Roberts, New York, and J. U. Pickard, Mining Engr., are reported as making experiments to see if the tundro plains adjacent to the Bering Sea contain gold in paying quantities.

RAILWAY.—Cuba.—The Cuba Ry. Co. has been incorporated with a capital of $500,000 by Chas. T. Barney, Wm. L. Bull and Franklin B. Lord, of Jersey City, N. J., to build a railway from Alto Cedro to the Bay of Nipe, Cuba.

AQUEDUCT.—San Juan, P. R.—Jose A. Canals, Cy. Arch. and Engr., San Juan, has reported that a new aqueduct is required, and that the old pumping machinery is expensive to run. Tulio Larringa and Louis S. Morales are on a committee to prepare plans for the improvements.

DREDGING, ETC.—San Juan, P. R.—A local paper states that a contracting firm in New York has offered to dredge San Juan harbor free of all cost to the city if it is permitted to have half of the lands thus reclaimed. This dredging will deepen the harbor to about 60 ft. and will cost about $1,500,000.

ELECTRIC LIGHT PLANTS.—Philippines.—Reports state that A. Burlinghame Johnson, formerly U. S. Consul at Amoy, China, is reported as letting contracts for an electric plant for Iloilo, P. I. The Ames Iron Works, of Oswego, N. Y., the Croker-Wheeler Electric Co., of New York, and the General Electric Co., New York, have contracts for electric plant equipment for the Sultan of Linga.

PUBLIC WORKS.—Cuba.—Eduardo J. Chibas, San Tadeo No. 8, Santiago de Cuba, writes us that he has let contracts for about $133,000 worth of public work as follows: One for a concrete arch bridge over the San Juan River, on the road from Santiago to Caney, to cost $31,000; one for a macadam road from Santiago to Caney bridge, to cost $26,000; a third contract for concrete storm drains, 4 and 5 ft. diameter, in Santiago, to cost $23,000, and one for a wharf at Gibara, to be built of native timber and to cost about $53,000. Mr. Chibas intends to pay special attention to examination of properties for investment purposes.

RAILWAY.—Alaska.—Geo. S. Canfield, of Minneapolis, Minn., and Nome, Alaska, is reported as arranging for the construction of the proposed railway across Alaska from Cook Inlet through Seward Peninsula for the Alaska & Sierra Co.——A company has been incorporated by ex-Gov. J. H. McGraw and U. S. Senator Geo. Turner, of Seattle, Wash., to build a railway on Resurrection Bay to Rampart City on the Yukon River, Central Alaska, about 574 miles distant.——The Klondike Mines Ry. Co., of Dawson, N. W. Ter., Can., it is stated, will soon begin the construction of a railway to the Alaskan gold mines, to be about 82 miles long. New mines, etc., will be opened. The Cudahys and E. C. Hawkins, Gen. Mgr., Chicago, Ill., may be addressed. The company is said to have let contracts for 50,000 ties to Capt. J. J. Campbell, of Seattle, this being the fourth one let for ties, making about 185,000 ties in all.

FOREIGN CONTRACTS—EXPORT NEWS.

MACHINERY.—Buenos Aires, Argentina.—Jos. P. Ginies, of Buenos Aires, is reported as wanting catalogues of American machinery, etc.

THEATRE BUILDING.—Paris, France.—It is stated that friends of Jean de Reszke propose to build a theatre for him near the Arc de Etoile, to cost about $600,000.

BRIDGE.—Newport, Eng.—Bids are asked until June 16 for constructing a masonry and steel transporter bridge over the River Usk at Newport. A. A. Newman, Town Clk.

RAILWAY.—Spain.—Reports state that the government proposes to build in the next few years about 5,000 kilometers of narrow-gage railways at a cost of about $48,000,000.

STEEL TROUGHING.—New South Wales.—Bids are asked by the commissioner and principal engineer for roads, Sydney, N. S. W., until June 9 for 10,000 ft. of steel troughing.

WATER PIPE, ETC.—Aelesund, Norway.—Bids are asked until May 20 for furnishing about 18,000 meters of 5, 9 and 8-in. c.-i. water pipe, 20 valves, etc. J. S. Solem, Engr., Aelesund.

RAILWAY.—Argentine Republic.—Government Engineer Schneidewind, Buenos Aires, is reported as making surveys for a railway from Jujup, Argentina, to Bolivia, to cost about $15,000,000.

ELECTRIC TRAMWAYS, ETC.—Spain.—The Tramway Cos. of Seville and San Sebastian have been granted franchises, and also Jose Batlley Hermandez for two lines from Seville and Castillija.

SEED OIL MILL.—Tashkend, Russian Asia.—S. A. Tikhonov and V. M. Prussovsky, of Tashkend, are in the U. S. with a view to purchasing machinery, etc., for a proposed cotton seed oil mill.

ELECTRIC TRAMWAY.—Ubeda, Spain.—Eustaquio Gamez, of Moreno, has asked the ministry of public works, Madrid, for concession for an electric tramway from Ubeda to the Church of Yedra.

ARTILLERY GUNS.—Austria.—The "Neue Freie Presse," Vienna, says the coming Austrian-Hungarian budget will provide for supplying new guns to the artillery, at a cost of about $9,500,000.

HARBOR WORKS.—Rosario, Argentine Republic.—Creusot & Co., of Paris, France, are reported to have been awarded the contract at about $10,000,000 for constructing the harbor improvements at Rosario.

RAILWAY.—Congo Free State, Africa.—Robt. Williams, 30 Clements Lane, London, E. C., Eng., is reported as making surveys for a railway in the Congo Free State for an English syndicate. The line will be about 350 miles long.

TWIST DRILLS.—Paris, France.—Guiterman, Pétard & Co., Ltd., Paris, are in the market for a line of twist drills (short set, straight shank) in millimeter sizes, and wish catalogues and prices from manufacturers through their N. Y. office, 35 So. William St.

WATER-WORKS.—Pekin, China.—Reports state that Chas. Denby, Jr., of Evansville, Ind., son of Chas. Denby, ex-U. S. Minister to China, has been commissioned by Prince Chang to build water-works for Pekin. The work will be sublet to a Philadelphia firm.

DEVELOPING OIL LANDS.—Persia.—Press reports state that an Australian millionaire named Darcy has secured a concession to develop an oil belt in southern and southwestern Persia. A pipe line will be laid from the head of the Kerkha Valley to Mohammera.

BEACONS, BUOYS, ETC.—Alexandria, Egypt.—Bids are asked by the Central Office of the Administration of Ports and Light-houses, of Alexandria, until June 2 for two gas beacons, one set of materials for lengthening a gas beacon, two beacon buoys, one set of chains, etc.

COAL HANDLING MACHINERY.—Lourenco Marquez, South Africa.—U. S. Consul Hollis, at Lourenco Marquez, reports state Senhor Albers, head of the harbor commission, wishes to secure catalogues, prices, etc., of coal-handling machinery, cranes, trestles, etc., from American firms.

FORTIFICATIONS.—Russia.—Press reports from Warsaw state that the Russian government has decided to rebuild the fortifications of the German and Austrian frontiers. This action is necessary as the result of Colonel Grimm's betrayal of the plans of the existing Russian fortresses.

POWER PLANTS.—Italy.—Reports state that Uario Alzia, Engr., of Milan, Italy, is organizing a company to build three power plants in upper Italy, one of 140,000 HP., one of 47,000 HP. and one of 32,000 HP.; estimated cost, about $10,000,000. The Bank of Marseilles, France, is said to be interested.

RAILWAYS.—Finland, Russia.—According to the "Novoe Vremya" the Finland Senate has decided to commence this year the construction of two railways, one between Ulea-

borg and Torneo, and the other between Helsingfors and Kasis. The estimated cost of these two lines to the Finland treasury is about $1,600,000.

RAILWAY.—Greece.—M. S. Consul Jackson, at Patras, Greece, reports that the Batignal Construction Co., of Paris, France, will have charge of the construction of the proposed Piraeus-Laurso R. R., to cost about $10,000,000, as noted in our issue of last week. Hambro & Son, Bankers, of London, Eng., are interested.

RAILWAY.—Congo, Africa.—It is stated that a concession was signed by the King of the Belgians on April 14, by which an Anglo-Belgian company secured the right to build the Cape Town to Cairo R. R., planned by the late Cecil Rhodes, through the Belgian Congo. The line north of Rhodesia will thus be diverted from German East Africa.

RAILWAY.—Mexico.—The government is reported to have renewed the concession to Arthur E. Stilwell, Pres. K. Cy., Mex. & O. Ry., Kansas City, Mo., for the proposed road between Durango and Gutierrez, Mex., 250 miles. Work will be begun at once. Lord Monson, Burton Hall, Lincoln, Eng., and A. C. Boyd, of London, are interested.

AGENCIES.—Europe.—R. M. Marples & Son, 153 Farringdon Road, London, E. C.; J. F. Villalta, 7 and 9 Puertaferrisa, Barcelona, Spain; D. P. Susseloff, of Sofia, Bulgaria; Grimsehl & Stumpeley, Hamburg, Germany, and Felix Rey de Castro, 84 Broad St., New York, are understood as wishing to represent American firms in their respective countries.

POWER PLANTS, ETC.—London, Eng.—Reports state that contracts for equipping the electric generating station for the Metropolitan Ry. Co. of London have been awarded to the British Westinghouse Electric & Mfg. Co., of Manchester, which is also equipping the Metropolitan Electric Traction Co. The aggregate power of the two plants will be 30,500 K-W.

RICE MILLING MACHINERY.—Siam.—U. S. Consul-General Hamilton King, of Bangkok, reports that the Prince Pra Ong Chow Sai Sanitwongse, of Bangkok, wants prices, and all information regarding rice-milling machinery for a rice mill of 133,000 lbs. of white rice a day, using electricity. Prince Chow is interested in the Klong Rangsit irrigation scheme. Address all catalogues, etc., to Mr. King.

ELECTRIC TRAMWAYS.—Shanghai, China.—We are informed that the report in our last issue stating that the municipal council of Shanghai will not receive proposals June 30 for an electric tramway concession is incorrect. The council will receive proposals for electric tramways and also for motor cars. The railway will be about 23 miles long. Address Mr. Patterson, of Fearon, Daniel & Co., 87 Front St., New York, for further information.

HARDWARE, FURNITURE, ETC.—Turkey.—U. S. Consul Thomas H. Norton, of Harput, reports that there is a demand for American furniture in that city. The inquiries are chiefly for office furniture and for such kinds of household furniture as may be compactly folded. There is also a demand for the hardware used in the manufacture of revolving chairs, desks, etc. Price-lists, with agents' rates, should be sent to Mr. Norton, addressed Mezreh, Mamouret-ul-Aziz, Turkey in Asia.

HOTEL. — Manchester, Eng.—Reports state that Jas. Stewart & Co., of St. Louis, Mo., have been awarded the contract for completing the hotel to be owned by the Midland R. R. Co., at Manchester. This firm, which recently completed the construction of the great British Westinghouse works at Trafford Park, has completed the 250-ft. chimney for the power station of the Mersey Ry. Co., which will operate an electric railway under the Mersey River, now being built by the British Westinghouse Mfg. Co. The hotel will cost about $5,000,000.

RAILWAY.—Central and South America.—President Roosevelt has recommended an appropriation by Congress of $200,000 to make investigations for building the projected Pan-American Ry. through Central and South America. With the message was also enclosed a complete copy of the resolutions of the Pan-American Conference recently held in Mexico. These resolutions indorse the proposed intercontinental road and place the length at 5,456 miles and the cost of construction at $174,290,271 in gold.

BRIDGES.—St. Petersburg, Russia.—Conditions and other particulars regarding the two bridges at St. Petersburg, plans for which are wanted until Sept. 1, as advertised in Engineering News, Sept. 19 to Oct. 3, 1901, may be had by addressing the Construction News Department, Engineering News, 220 Broadway, New York, and enclosings 35 cts. in stamps. Ignace Ciszewski, Civil Engr. of the Alexander First Institute of St. Petersburg, who is visiting the U. S., is reported as saying that the ornamentation alone will cost about $500,000.

POWDER MAGAZINE.—Vera Cruz, Mex.—Lt. Carlos Aguelles, of the Mexican Army, is making specifications for a large powder magazine at Vera Cruz, where the government is building harbor improvements. The piers, etc., which the government ordered constructed by the Mexican Central, are nearly completed, and experiments have been made in the loading and unloading of vessels there which have been highly satisfactory. The construction company believes that the improvement in course of operation at Tampico will be completed by the end of the year.

ELECTRIC RAILWAYS.—Auckland, N. Z.—The Auckland Electric Tramways Co., Ltd., is completing its line, the contracts for which were let last May to J. G White & Co., Cannon St., London, E. C., England, at about $1,300,000. This company has also the contract for an electric road in Kalgoorlie, W. A., to be owned by the Kalgoorlie Electric Tramways Co., Ltd., to cost about $1,000,000. The Westinghouse Electric & Mfg. Co., of Pittsburg, Pa., is said to have the contract at about $250,000 for an electric road in Dunedin, N. Z. The General Electric Co., of New York, has the contract for the electric equipment for the roads in Sydney, N. S. W., to cost about $3,500,000; the American Bridge Co., New York, has the contract for the structural work, and the National Conduit Cable Co., 14 Park Row, New York, has the contract for the trolley wire, etc.

MACHINERY, SUPPLIES, ETC.—Port Arthur, North China.—Arthur Eveleigh, Engr., East Asiatic Co., Ltd., Port Arthur, writes us that there is a very wide field in North China for all kinds of engineering, mining, electrical, railway and supplies. Complete catalogues (bound preferable), are wanted, together with all export price lists, discounts, weights, dimensions (so that freight can be easily figured), and code words. Duplicate catalogues can be used. The East Asiatic Co., Ltd., is a Danish firm, with head offices in Copenhagen and offices in Russia and throughout the east, and owns a fleet of first-class steamers, etc. In our last issue we stated that this company wanted bids for furnishing 1,500 tons of c.-i. water pipe to be used by the Russian government for the new city of Port Arthur. The official tests for this pipe will be very severe. The specifications, etc., may be seen in the office of Engineering News, 220 Broadway, New York.

RAILWAY.—Mexico.—A. A. Robinson, Pres. Mexican Central R. R. Co., Boston, Mass., is quoted as stating that work will soon be begun on the 200-mile extension of the road from Torres to Trevenio, near Monterey. The Mexican Central Ry. Co. has purchased for $900,000 gold from Richard Honey his line of railway (partly built) together with a concession for a road from Sandoval, on the Vera Cruz Ry. to Tampico. About 100 kilometers have been built. The Central will build from Lecheria on its main line, to connect with its new acquisition and already has surveying parties out locating a line down the mountain to Tampico. The company agrees to complete this new line uniting Tampico with this city by the last of 1904. The unconstructed portion of the new line carries a subsidy of $6,500 per kilometer in 5% silver bonds of the Federal government. The new line will give the Central adirect route from this city to Tampico, which is rapidly rising in commercial importance. Sir Weetman Pearson, the English contractor, who leased the Tehauantepec National Ry. for 50 years, says that the work of reconstructing the line is progressing satisfactorily.

ELECTRICAL APPARATUS, ETC.—Argentina.—H. M. Consul at Buenos Aires states that there is a steadily increasing demand for all manner of electric appliances for domestic use, such as lifts, automatic and otherwise, fans and ventilators, and also for electric tramway, rolling stock and installations. The consul adds that the success which during the past two years has attended the development of freezing establishments, and the complaints made by stock owners of the low prices paid to them, seems to point to an opening for capital in this business. There appear to be openings for: agricultural implements and machinery resembling those imported from the U. S., made to standard sizes, accompanied by spare parts duly numbered to make replacing easy; light carriages of two or four wheels, such as come from the U. S.; railway and electric tramway rolling stock and permanent way and all manner of appliances for mechanical land transport; soft steel girders of various shapes used very largely in house building; iron windmills, which are used in increasing numbers to pump water on the "estancias" for cattle; weigh bridges for use on "estancias," simple, accurate and durable; raw materials used in the manufacture of soap and candles. The greater part of the soda ash and caustic soda comes from the United Kingdom, but none of the talc, little of the resin, and only a diminishing quantity of the palm oil and wick.

CONTRACT PRICES.

LAYING WATER MAINS.—Hyde Park, Mass.—The Metropolitan Water-and Sewerage Board, Boston, received the following bids April 22, 1902, for laying water mains in Hyde Park; contract awarded T. Bruno, Boston:

WATER PIPE.—Yonkers, N. Y.—A. W. [illegible]bury, Clk Bd. Water Comrs., writes us that the following bids were received May 1, 1902, for furnishing 500 lengths of 6-in. cast-iron water pipe of 400 lbs. per length, 12 ft., and 100 lengths of 4-in. pipe of 250 lbs. length, 12-ft.:

Bidder.	Pipe 6-in.	Pipe 4-in.
Chas. Millar & Son Co., Utica, N.Y.	[illegible]	[illegible]
R. D. Wood & Co., Philadelphia, Pa.	40	$33.52
Warren F. & M. Co., New York	40	30.85
U. S. C.-I. Pipe & Foundry Co., Philadelphia	29	32.00
Wm. V. Briggs, 166 Duane St., N. Y. City	30	32.50
M. J. Drummond & Co., New York	30	33.50
	45	32.45

PAVING, ETC.—Hoboken, N. J.—Tivy & Engrs., Hoboken, writes us that the following bids were received April 23, 1902, for paving in Jefferson St.: (1) bid of Henry Waddington, Jefferson St., near 6th St.; (2) Thos. Cavanagh, Madison and 12th Sts.:

		1	2
New paving	4,650 sq. yds.	$1 [illegible]	$1.45
Repaving	250 " "	[illegible]	[illegible]
New curb	1,650 lin. ft.	[illegible]	.24
Resetting curb	950 " "	[illegible]	.44
New flagging	6,800 sq. ft.	[illegible]	.04
Relaid flagging	3,800 " "	[illegible]	.14
New bridging	600 " "	[illegible]	.02
Relaid bridging	450 " "	[illegible]	.35
Earth filling	4,700 cu. yds.	[illegible]	.02
Receiving basins raised	5 each	[illegible]	.01
Manholes raised	19 "	[illegible]	.01
Total		$8,947.10	$8,809.74

BRICK PAVING.—Conneaut, O.—Geo. B. [illegible], City Engr., received the following bids April 26, 1902, for brick paving in Broad St.: (1) being for 5,675 sq. ft. of straight curbing; (2) for 226 ft. of circular curbing; (3) for 100 ft. of curbing redressed and reset; (4) for 440 ft. of protection curb; (5) for Mack repressed block, Buckeye filler; (6) cement filler; (7) Murphy grout filler; (8) Mack wire cut, Buckeye filler; (9) cement filler; (10) Murphy filler; (11) Harper-Norton repressed brick, Buckeye filler; (12) cement filler; (13) Murphy block; (14) Metropolitan block, Buckeye filler; (15) cement filler; (16) Murphy filler; (17) Park wire cut; (18) taken up and relaid; (19) excavation and grading, 3,000 cu. yds.; (20) one new catch basin; (21) one catch basin, rebuilt; (22) one extra manhole cover; (23) extra lamphole covers, 13; (24) 10-in. sewer pipe, 700 ft.; (25) 12-in., 690 ft.; (26) 18-in. pipe, 1,430 ft.; (27) manholes, 7; (28) inlets, 30; (29) st. ry. gratings, 2; (30) iron pipe, 1.5 tons, per ton; S. D. De Groodt, Youngstown, O., (1) 34 cts.; (2) 60 cts.; (3) 12 cts.; (4) 30 cts.; (5) $1.25; (6) $1.20; (7) $1.30; (8) $1.20; (9) $1.15; (10) $1.25; (11) $1.30; (12) $1.25; (13) $1.35; (14) $1.20; (15) $1.16; (16) $1.25; (18) 30 cts.; (19) 25 cts.; (20) $25; (21) $20; (22) $6.50; (23) $7; (24) 35 cts.; (25) 50 cts.; (26) 50 cts.; (27) $25; (28) $12; (29) $10; (30) $35. V. D. Eichenlaub, Erie, Pa., (1) 55 cts.; (2) 70 cts.; (3) 15 cts.; (4) 35 cts.; (10) $1.24; (13) $1.10; (17) $1.30; (18) $2.05; (19) 28 cts.; (20) $28; (21) $22; (22) $8.50; (23) $7.50; (24) 45 cts.; (25) 52 cts.; (26) 64 cts.; (27) $25.55; (28) $8.50; (29) $9; (30) $70. F. B. Dunn, Conneaut, (1) 36 cts.; (2) 72 cts.; (3) 15 cts.; (4) 36 cts.; (11 and 13) $1.20; (18) $1; (19) 25 cts.; (20) $25; (21) $17; (22) $10; (23) $7.50; (24) 38 cts.; (25) 45 cts.; (26) 73 cts.; (27) $25; (28) $12; (29) $8.50; (30) $55. A. G. Pugh, Conneaut, (1) 35 cts.; (2) 60 cts.; (3) 12 cts.; (4) 30 cts.; (5) $1.25; (7) $1.28; (8) $1.19; (10) $1.22; (11) $1.29; (13) $1.32; (14) $1.27; (16) $1.30; (18) 70 cts.; (19) 25 cts.; (20) $25; (21 and 22) $10; (23) $9; (24) 40 cts.; (25) 45 cts.; (26) 54 cts.; (27) $25; (28) $10; (29) $8; (30) $15. Contract let to V. D. Eichenlaub at $20,635 for Harper-Norton repressed brick, Murphy filler.

ASPHALT PAVING.—Joliet, Ill.—The R. F. Conway Co., of Chicago, Ill., submitted the lowest bid April 28, 1902, at $1.75 and $1.76 for 23,000 sq. yds. of asphalt paving and 30 cts. for new curb.

SEWERS.—Fresno, Cal.—S. B. Toombs has been awarded the following contract for building sewers: 12-in. pipe in trench per lin. ft. 82½ cts.; 10-in. 70 cts.; 8-in. 60 cts.; concrete for foundation, 25 cts. per lin. ft.; timber in foundation, $25.50 per 1,000 ft.; manholes complete, $50; inspection holes, $15 complete; total, $15,700.

Bids Received at Boston, Mass., April 22, 1902, for Laying Water Mains in Hyde Park.

Quantities.		T. Bruno, Boston.	J. J. Callahan, Atlantic, Mass.	A. A. Libby & Co., Boston.	Thos. H. Gill, Somerville, Mass.
Laying 12-in. cast-iron pipe	8,655 lin. ft.	$0.53	$0.65	$0.95	$1.15
Laying 12-in. cast-iron pipe with flexible joints	145 " "	9.00	4.00	6.00	2.25
Laying 4-in. cast-iron pipe	125 " "	.50	.50	.50	.50
Rock excavation above grade	100 cu. yds.	4.00	3.50	3.50	3.00
Rock excavation below grade	5 " "	5.00	5.00	5.50	5.00
Earth excavation below grade	20 " "	1.00	.75	1.00	.90
Setting air valves	5 each	2.50	3.00	5.00	25.00
Brick chambers for valves	14 "	45.00	35.00	30.00	80.00
Concrete masonry	5 cu. yds.	8.00	6.00	7.00	7.00
Removing stone culvert in West St.	200 lin. ft.	2.50	1.50	1.50	150.00
Removing and rebuilding sidewalk, etc., West St. bridge		300.00	750.00	400.00	250.00
Total		$7,882.15	$8,243.25	$10,732.25	$42,105.00

CEMENT, SAND, ETC.—Boston, Mass.—Capt. Harry Taylor, U. S. Engr., 917 Winthrop Bldg., Boston, informs us that the following bids were received April 28, 1902, for furnishing cement, sand and broken stone as advertised in Engineering News: (1) being for 7,000 bbls. Portland cement, delivered at Lovells Island, Boston Harbor; (2) 6,000 bbls. delivered at Little Harbor, N. H.; (3) 3,500 cu. yds. of sand, at Lovells Island; (4) 3,000 yds., Little Harbor; (5) 7,800 cu. yds. of broken stone, Lovell's Harbor; (6) 6,350 yds., Little Harbor; Rowe Bros., Richmond, Me., (3) 79 cts., (4) 70 cts.; Berry & Ferguson, 141 Milk St., Boston, (1 and 2) $1.40 in sacks, $1.65 in bbls (Saylor's); D. W. Lewis, 192 Devonshire St., Boston, (1) $1.55 in sacks, $1.75 in bbls (Ironclad); J. P. Riordan, Charlestown, Mass., (3) 71 cts.; Philip H. Doyer, Knightsville Me., (6) $3, Class B; $2.25 Class A; Rockport Granite Co and Pigeon Hill Granite Co., Rockport Mass., (1) $1.61 crusher dust, (5) $1.75, (6) $1.85; W. G. Nash, 230 State St., Boston, (1) $1.50 in sacks, $1.70 in bbls., (2) $1.55 in sacks, $1.75 in bbls. (Invicta brand); Waldo Bros., 102 Milk St., Boston (1 and 2) $1.50 in sacks $1.74 in bbls (Atlas brand); Windsor Cement Co., (1) $1.80 in bbls., (2) $1.85 in bbls. (Vulcanite); if contract is secured for both places a reduction of 2.5 cts. a bbl. is offered.

SEWERS AND SEWAGE DISPOSAL PLANT.—Saratoga Springs, N. Y.—The following bids were received April 24 for constructing an intercepting sewer and a sewage disposal plant; Snow & Barbour, Engrs., Boston, Mass.:

Bids Received at Saratoga Springs, N. Y., April 24, 1902, for Constructing a Sewer and a Sewage Disposal Plant.

Quantities.		Albert M. Banker, Gloversville, N.Y.	Fitzpatrick Costello & Co., Plattsburg, N.Y.	C. E. Trumbull & Co., Boston.	John E. Gaffney, Saratoga, N.Y.	Beckwith & Quackenbush, Mohawk, N.Y.	Wm. M. Albaugh, Schenectady, N.Y.
Excavation, intercepting sewer, 0 to 9 ft.	7,500 cu. yds.	$0.50	$0.47	$0.45	$0.47	$0.55	$0.92
" " " 9 " 15 "	1,000 " "	1.40	.73	1.00	.69	1.00	1.75
" " " 15 " 21 "	140 " "	3.00	1.44	2.00	.92	2.50	6.00
2 to 24-in. vitrified pipe (discounts)	18,110 lin. ft.	68%	70%	60%	67%	60%	60
Laying 10 and 12-in. pipe	400 " "	.15	.85	.12	.08	.15	.10
" 15 and 18-in. "	2,600 " "	.17	.12	.18	.11¾	.20	.12
" 20 and 24-in. "	8,100 " "	.25	.20	.25	.17¾	.25	.18
Brick work	125 cu. yds.	10.00	12.00	12.00	10.87	18.00	12.00
Grubbing	130 sq. rods.	1.00	.53	1.00	8.50	1.25	2.00
Excavation in open cut	6,500 cu. yds.	.40	.33	.25	.24	.40	.27
Excavation force main	6,250 " "	.35	.47	.42	.37	.35	1.00
Furnishing 16-in. cast-iron pipe	8,715 lin. ft.	1.60	1.68	1.70	2.05	1.65	1.65
Laying 16-in. cast-iron pipe	8,715 " "	.34	.28	.36	.16½	.35	.3[illegible]
American Portland cement	3,200 bbls.	1.85	1.75	1.75	1.84	1.65	1.85
American Portland cement	3,200 bags	1.60	1.55	1.60	1.64	1.40	1.75
Concrete masonry	2,700 cu. yds.	2.50	4.50	3.75	2.34	4.95	4.00
Pumping station (lump bid)		2,000	4,000	2,400	4,797	3,192	2,900
Excavation, disposal area	100,000 cu. yds.	.23	.18	.19	.20%	.22	.27
Distributing pipes	2,300 " "	.40	.46	.40	.27	.20	.30
Underdrains	4,500 " "	.40	.40	.40	.27	.40	.45
Laying 6 and 8-in. underdrains	4,200 lin. ft.	.30	.20	.20	1.10	.18	.14
Laying 10, 12 and 15-in. underdrains	1,415 " "	.40	.26	.25	1.20	.25	.20
Carriers	18 each	20.00	30.00	50.00	64.00	12.50	75.00
Seeding	12 acres	10.00	15.00	30.00	30.00	40.00	10.00
Embankment steps (lump bid)		60.00	60.00	100.00	100.00	100.00	150.00
Total		$84,002	$84,758	$86,770	$90,369	$96,089	$103,913

PAVING BRICK.—Holyoke, Mass.—We are informed that the board of public works received the following bids May 2, 1902, for furnishing 300,000 paving brick or block: American Sewer Pipe Co., New York, 9⅜ × 4 × 3½ ins. $26, 8½ × 2⅝ ins. $20.80, and 8¾ × 3½ × 2⅝ ins. $17; Ferris Brick Co., Mechanicsville, N. Y., 8½ × 3¾ × 3 ins. $24.25; Gulick Brick Co., Williamsport, Pa., 9 × 4 × 3⅛ ins. $24.25, 8½ × 4 × 2⅝ ins. $19.40; Mack Mfg. Co., Philadelphia, Pa., 9½ × 4 × 2½ ins. $19.38, 8½ × 4 × 2½ ins. $18.24, 9⅛ × 4 × 3 ins. $25.60, and 9 × 4 × 3 ins. $25.60; Wm. S. Felt, New Britain, Conn., 8⅝ × 4¼ × 2⅝ ins. $18.62.

ASPHALT BLOCK PAVING.—Baltimore, Md.—The following bids were received by the municipal board of awards May 1, 1902, for trap rock asphalt block paving: John L. Robertson, $2.39, $2.27 and $2.25 a sq. yd.; Maryland Pavement Co., $2.42, $2.35, $2.27, $2.30; Sheet Asphalt—Southern Asphalt Co., $2.08; Filbert Paving Co., $2.1[illegible]

PIPE SEWERS.—Bessemer, Ala.—Wm. J. Parkes, Cy. Engr., informs us that the following bids were received April 22, for pipe sewers, etc., as advertised in Engineering News; contract awarded W. J. Long for construction; C. M. Burkhalter furnishes pipe, brick, iron castings and flushtank fittings.

Bids Received at Bessemer, Ala., April 22, 1902, for Laying Pipe Sewers, Etc.

Quantities.		Donelson Const'n Co., Birmingham.	C.M. Burkhalter & Co., Birmingham.	Dunn & Lallande Bros., Birmingham.	Mitchell, Minnis & Co., Birmingham.	J. C. Burgin & Co., Bessemer.	W. J. Long, Bessemer.
Laying 6-in. pipe	25,000 lin. ft.	$0.04	$0.03	$0.02	$0.02¼	$0.023	$0.03
" 8-in. "	66,700 " "	.05	.04	.03	.03	.026	.035
" 10-in. "	3,200 " "	.07	.05	.03	.06	.031	.04
" 12-in. "	5,500 " "	.08	.06	.05	.07	.039	.05
" 15-in. "	2,700 " "	.10	.07	.10	.08	.045	.06
" 18-in. "	3,800 " "	.10	.08	.12	.10	.055	.07
" 20-in. "	3,400 " "	.10	.09	.12	.10	.068	.09
" 22-in. "	200 " "	.12	.10	.15	.11	.08	.12
4-in. drain tile	400 " "	.05	.04	.025	.035	.01	.02
6-in. underdrain	37,400 " "	.22	.16	.20	.19	.035	.08
Excavation and backfilling .. 6 to 8 ft.	46,500 " "	.30	.30	.25	.25	.17	.15
" " " .. 8 " 10 "	11,500 " "	.35	.41	.35	.40	.25	.30
" " " ..10 " 12 "	6,500 " "	.50	.67	.40	.45	.38	.45
" " " ..12 " 14 "	1,200 " "	.75	.97	.50	.60	.63	.70
" " " ..14 " 16 "	800 " "	1.10	1.40	.70	1.28	.97	.95
" " " ..16 " 18 "	800 " "	1.40	1.73	.85	2.25	1.35	1.10
" " " ..18 " 20 "	600 " "	1.70	2.33	.85	3.85	1.65	1.20
Extra for rock, per lin ft. depth	72,000 " "	.18	.15	.10	.08	.15	.12
Manholes	210 each	12.00	10.00	10.00	15.00	17.50	15.00
Combination manhole and flushtank	20 "	30.00	12.50	43.00	35.00	30.00	26.00
Flushtanks	30 "	25.00	10.00	25.00	20.00	18.00	17.00
Total		$56,282	$43,407	$43,326	$40,943	$39,010	$36,081

Bids for Material: Vitrified clay pipe, f. o. b. Bessemer; (1) bid of Blackmer & Post Pipe Co., St. Louis, Mo.; (2) E. G. Stevens, Birmingham; (3) Montague & Co., Chattanooga, Tenn.; (4) H. S. Stevens Sons Co., Macon, Ga., and Lewis Hardware Co., Bessemer, both made like bids, and contract was awarded the latter company for material; the contract for brick was awarded the Standard Brick Co., at $7.50 per M., all hard, delivered:

	1.	2.	3.	4.
6-in. pipe. .25,000 lin. ft..	$0.08¼	$0.08	$0.06	$0.06
8-in. " .66,700 " "	.14	.12	.09	.09
Y's. ..... 3,420 each...	.50	.49	.455	.43
10-in. pipe .. 3,200 lin. ft..	.20	.18	.13	.13
Y's. ..... 78 each...	.70	.74	.655	.60
12-in. pipe .. 5,500 lin. ft..	.275	.23	.17	.17
Y's. ..... 40 each...	1.00	.93	.86	.80
15-in. pipe .. 2,700 lin. ft..	.38	.33	.30	.30
Y's. ..... 32 each...	1.35	1.32	1.51	1.45
18-in. pipe .. 3,800 each...	.60	.49	.41	.40
Y's. ..... 16 each...	2.28	1.78	2.04	1.90
20-in. pipe .. 3,400 lin. ft..	.75	.72	.54	.55
Y's. ..... 113 each...	2.91	2.88	2.71	2.55
22-in. pipe .. 200 lin. ft..	.96	.78	.66	.65
4-in. tile ... 4,000 " "	.034	.026	.021	.02
6-in. caps ... 3,500 each...	.05	.02	Free.	.01
Total	$19,048	$17,223	$14,325	$14,234

REPAIRING BRIDGE.—Ottumwa, Ia.—The following contract was let by F. Keefe, Chn. St. Com., April 21, 1902, to Wheeler Lumber & Bridge Supply Co. for reconstructing the floor system of the Market St. bridge: For 2½-in. × 16-in. × 20 ft. Oregon fir joist, $28.50 per M. B. M.; 3-in. × 16-in. × 20 ft. Oregon fir joist, $18.50 per M. B. M.; 3¼-in. × 16-in. × 20 ft. Oregon fir joist, $28.50 per M. B. M.; 6-in. × 16-in. × 20 ft. Oregon fir joist, $28.50 per M. B. M.; 2½-in. × 16-in. × 19 ft. Oregon fir joist, $28.50 per M. B. M.; 3-in. × 16-in. × 19 ft. Oregon fir joist, $28.50 per M. B. M.; 3¼-in. × 16-in. × 19 ft. Oregon fir joist, $28.50 per M. B. M.; 6-in. × 16-in. × 18.5 ft. Oregon fir joist, $28.50 per M. B. M.; 4-in. × 4-in. × 14 ft. white or burr oak, $29.50 per M. B. M.; white burr oak flooring, $29.50 per M. B. M.; 2-in. × 12-in × 1.4-in. or multiple lengths thereof of white or burr oak separators surfaced on both sides, $29.50 per M. B. M.; 1¼-in. × 6-in. × 14 ft. white or burr oak fillers for ties of the street railway, $29.50 per M. B. M.

ENGINEERING MATERIAL PRICES

TRACK MATERIAL:

New York, tidewater—Steel spike bars, 1.65 cts.; spikes, 2.00 cts.; track bolts, hexagon nuts, 2.65 to 2.70 cts.

Chicago—Steel spike bars, 2 cts.; spikes, 2.30 to 2.40 cts.; track bolts, hexagon nuts, 2.85 to 3.10 cts.; square nuts, 2.70 to 2.95 cts.

Pittsburg—At mill, spike bars, 1.75 to 1.80 cts.; spikes, 1.85 to 2 cts.; track bolts, sq. nuts, 2.65 to 2.70 cts.; track bolts, hex. nuts, 2.75 to 2.85 cts.

RAILS, STEEL—

New York—F. o b., new, $28 standard sections; old iron, $24 to $25; old steel, $20.00 to $21.00.

Chicago—New, $28 standard sections; light rails, $33 to $35; old iron, $24 to $25; old steel, mixed lengths, $17.50 to $18; old steel, long lengths, $25 to $26.

Pittsburg—F. o. b. new, $28; old iron, f. o. b., $24 to $25; old steel, $19.50 to $20.

STRUCTURAL STEEL—

New York—At tidewater, beams, 1.75 to 2.25 cts.; channels, 1.75 to 2.25 cts.; tees, 1.80 to 2.25 cts.; angles, 2 to 2.25 cts.

Chicago—Beams, 15 ins. and under, 1.75 to 1.90 cts.; 18 ins. and over, 1.85 to 2.00 cts.; tees, 1.80 to 1.90 cts.; angles, 1.75 to 1.90 cts.

PLATES AND SHEETS—

Chicago—Universal mill plates, tidewater, 1.78 to 1.80 cts.; tank, ¼-in. and heavier, 1.75 to 1.90 cts.; flange, 1.95 to 2 cts.; firebox, 2 cts.; sheets, No. 27, black, 3.15 to 3.25 cts.

Pittsburg, f. o. b.—Universal mill plates, 1.60 cts.; tank, ¼-in. and heavier, 100 ins. wide, 1.60 cts.; flange and boiler steel, 1.70 cts.; locomotive firebox, 2.10 to 3 cts.; sheets, black, 27 gage, 3.10 cts.; black, 28 gage, 3.15 to 3.25 cts.

MERCHANT STEEL—

Pittsburg—Tool, per lb., 6½ to 7 cts. and upwards; steel bars, 1.50 cts. in carload lots; 1.60 cts. in small lots; tire steel, 1.80 to 2 cts.

IRON—

Pig Iron.

New York—Tennessee and Alabama, No. 1 foundry, $19.50 to $20.50; No. 2 foundry, $18.75 to $19.25; No. 3 foundry, $17.75 to $18.25.

Chicago—Local coke foundry: No. 1, $20 to $20.50; No. 2, $19.50 to $20; No. 3, $19 to $19.50.

Pittsburg—No. 2 foundry, $20.50 to $21; No. 1, $21 to $22, f. o. b. cars Pittsburg; Bessemer, big lots, $19.50; Gray forge, $19.50 to $19.75.

Bar Iron:

Pittsburg, refined, on dock—1.95 to 2 cts.; common, on dock, 1.83 to 1.85 cts.; steel bars, at mill, 1.60 to 1.75 cts.

LUMBER—

New York:

Hemlock timber, 20 ft. and under, per M., $16.50 to $17. Piling, Eastern spruce, 35 to 40 ft., ranging 30 to 40% 12-in. butts, $6 to $7.

Yellow pine, random cargoes, $20.50 to $21.50.

GENERAL MATERIALS—

Lead, pig, spot, New York, 4.12½ cts.; St. Louis, soft Mo., 4 cts.

Spelter, St. Louis, 4.125 to 4.15 cts.

Copper, standard, 11 cts.

U. S. Consul S. Listoe, of Rotterdam, Holland, reports that the following are the prices for American lumber in Rotterdam, per M. and B. M.: Prime walnut logs, 16 ins. and upward: to average 21 to 22 ins, $90 to $100; average 23 to 24 ins., $110 to $120; prime white-oak logs, 24 ins. and upward, $42 to $44; whitewood logs, 28 ins. and upward, $42 to $44; prime hickory logs, with small, brown heart, $52 to $54; white-ash logs, 14 ins. and upward, $44 to $45; gum boards and planks, 1 to 3 ins. thick, $42 to $46; white-oak boards and planks, 1 to 3 ins., $46 to $51; oak scantlings, 3 × 3, 4 × 4 ins., 8 to 16 ft., $49 to $42; cottonwood boards and planks, 1 to 3 ins., $28 to $31; walnut boards and planks, 1 to 4 ins., $105 to $125; white-oak stairsteps, 1¾ or 2¼ ins. by 11, 12 or 13 ins., $52; white-oak parquetry strips: 1 × 4, 4½, 5 to 6 × 20 or 24 ins., $38; 1 or 1¼ × 4 to 6 ins., 10 to 16 ft. long, $43 to $44; white-ash boards and planks, 1 to 3 ins., $44 to $48; pitch pine, 1 to 3 ins. × 11 ins. and upward, per standard, $63.25 to $65.68.

INDUSTRIAL NOTES.

THE ABERTHAW CONSTRUCTION CO., Boston, has moved its offices to 8 Beacon St.

JAMES GAMBLE, and S. J. Franklin, New York have moved their offices from 11 William St., to 82-88 Wall St.

THE CAMERON SEPTIC TANK CO., Chicago, has moved its offices from Plymouth Bldg., at 812-813 Monadnock Block.

THE ALLISON MFG. CO., Philadelphia, is said to have a contract for 100 flat cars, for a new railway in Newfoundland.

SPON & CHAMBERLAIN, New York, publishers of engineering and technical books, have moved from 12 Cortlandt St. to 123 Liberty St.

THE BULLOCK ELECTRIC MFG. CO., Cincinnati, has the contract for an electric light plant for the British naval barracks, at Porthmouth, England.

A. J. FISHER, 50 South Clinton St., Chicago, is reported to have an order for two air compressors, to be used for bridge construction work in Costa Rica.

THE PAGE WOVEN WIRE FENCE CO., Adrian, Mich., and Monessen, Pa., is reported about to increase its capital stock to $8,000,000, and to make extensive additions to both its plants.

THE KEYSTONE DRILLER CO., Beaver Falls, Pa., is reported to have received a contract for three drilling equipments for testing placer ground in the Ivory Coast gold fields, West Africa.

THE GARDNER ELECTRIC DRILL & MACHINERY Co., Cleveland, O. is reported to have secured through its Denver office orders for its electric rock drills for shipment to Mexico and Australia.

THE RITER-CONLEY MFG. CO., Pittsburg, has a contract for a steel stack over 300 ft. high for a power plant at Mapimi, Mex. It is claimed that this will be the tallest steel stack in this country.

THE LOCOMOBILE CO., 7 East 42d St., New York, announces that the Marquis of Salisbury is one of the latest purchasers in England of a Locomobile, thus showing the popularity of American automobiles.

THE GEORGE WHITING CO., 428 North Halsted St., Chicago, is a new firm which has gone into the business of manufacturing all kinds of punching and shearing machines and bending rolls. George Whiting has been for some time associated with the Scully Steel & Iron Co., of Chicago.

THE ATLAS PORTLAND CEMENT CO., 30 Broad St., New York, is said to have a contract through Henry A. Case of the City of Mexico, for 2,000 bbls. cement for the foundations of the new Federal post office building at the Mexican capital.

THE BEMIS CAR TRUCK CO., Springfield, Mass., has been organized to succeed the Bemis Car Box Co., capital stock, $300,000; Pres., J. D. Gallagher, Newark, N.J.; Vice-Pres., J. C. Beach, New York; Gen. Mgr., C. A. Bemis, Springfield, Mass.

THE WESTINGHOUSE ELECTRIC & MFG. CO., Pittsburg, has just sold two rotary converters of 300-K-W. each to the Manchester (N. H.) Traction, Light & Power Co., and one of 200-K-W. and one of 400-K-W. capacity to the South Covington & Cincinnati St. Ry. Co.

THE WELLS LIGHT MFG. CO., New York, has had a No. 3 light returned by the N. Y. C. & H. R. R. R. Co. for repairs. The company states that this light was sent out in March, 1892, and that after a few hours' work refitting it was returned to the railway company as good as new.

THE MINE & SMELTER SUPPLY CO., Denver, Colo., is reported to have a contract for Durkee electric drills, amalgamating and cyaniding machinery from the Inca Mining Co., of Tirapata, Peru. The company has other contracts in hand from the Montezuma Lead Co., Santa Barbara, Mex., and from a company at Puerto Cortez, Honduras.

THE STANDARD WATER METER CO., 22 Reade St., New York, has moved into its new factory on Robinson St. and Nostrand Ave., Brooklyn. We are informed that the facilities for manufacturing are now four times as great as formerly, and that a 6-in. water main is run into the building for testing large meters, such as the company makes a specialty of building.

JAMES STEWART & CO., St. Louis, have completed a chimney about 250 ft. high for the new power station being built by the British Westinghouse Co. for the Mersey Ry. Co. at Liverpool. This work was commenced just before Jan. 1, 1902, and is claimed, together with the construction of the British Westinghouse Co.'s new plant also built by James Stewart & Co., as the best record in England for rapid brick laying.

THE WESTINGHOUSE ELECTRIC & MFG. CO., Pittsburg, announces that it has made an agreement with the Lorain Steel Co. whereby it acquires the electric railway equipment business of the Lorain company, formerly carried on under the name of the Steel Motor Co. at Johnstown, Pa. The works at Johnstown will be continued and the steel motor will be sold as an adjunct to its own electric railway business.

R. BAFFREY, 1123 Broadway, New York, American manager of the Hennebique Patents, has just been awarded contracts for Hennebique armored concrete construction as follows: Reservoirs in ground for the Curtis Bay Co., at Anne Arundell, Md., containing 60,000 gallons; stairs for the Merchant Transfer Storage Co., Washington; parish hall at Washington, D. C.; International Trust Bank Building, at Baltimore.

WM. B. SCAIFE & SONS CO., Pittsburg, reports the following recent contracts for its purifying systems for treating boiler feedwater: American Sheet Steel Co., New Philadelphia (O.) plant, 1,500 HP.; A. A. Simonds & Son, Dayton, O., 200 HP.; Harrisburg Rolling Mill Co., Harrisburg, Pa., 1,500 HP.; Antrim Iron Co., Mancelonia, Mich.; 1,500 HP.; National Mining Co., Pittsburg, Pa., 1,000 HP.; Isaac Harter Co., Fostoria, O., 1,000 HP.

H. W. CALDWELL & SON CO., 17th St. and Western Ave., Chicago, has recently purchased the entire equipment of gear patterns, molding machinery, gear cutters and all other appliances pertaining to the power transmission business of the Walker Mfg. Co., of Cleveland, O. The Walker pattern list is claimed to be the most complete in existence, and from its wide variety it is said to be possible to meet every requirement where gears are used.

THE PITTSBURG FILTER MFG. CO., Pittsburg, reports that it has just closed a contract with the Colorado Fuel & Iron Co., Pueblo, Colo., for the largest water-softening plant west of the Mississippi River. It will be used in the rod and wire mill departments of the works to purify the water for Stirling boilers, and will be installed in conjunction with the Pittsburg feedwater heater, manufactured by Jas. Bonar & Co., of Pittsburg, and will furnish a supply of water for boilers from which 97% of the lime will be removed.

THE FORE RIVER SHIP & ENGINE CO., Quincy, Mass., has nearly completed its new annealing plant to replace the one destroyed by fire last winter. Its new shiphouse is also nearing completion and all four of the traveling cranes are in operation. A 75-ton gantry crane has arrived and will be in operation in about a month. The 7-masted schooner "Thomas W. Lawson," will soon be launched, and work is progressing rapidly on all other ships under construction, including the battleships "New Jersey" and "Rhode Island."

THE ABNER DOBLE CO., Tremont and Howard Sts., San Francisco, has recently closed a contract with the Bay Counties Power Co. of California for two water wheel units of 3,700 HP. each, to operate under an effective head of water of 1,600 ft. It is claimed that these will be the largest single tangential water wheel units ever installed, and will be equaled only by the 5,000-HP. turbines at Niagara. The generator for these units will be furnished by the Stanley Electric Co., Pittsfield, Mass., and will be of 2,000-K-W. output at 240 r. p. m. The main shaft will be made by the Bethlehem Steel Co., South Bethlehem, Pa., of its high carbon, open-hearth, annealed, oil-tempered, nickel steel.

THE PITTSBURG GAGE & SUPPLY CO., Pittsburg, reports an excellent demand for its White Star oil filter. Recent shipments included four filters to the Yarbie Mines, Japan. The company has recent orders for its continuous oiling systems using the duplex types of the White Star filter, one of 6,000 gallons filtering capacity per day for the Union Steel Co., Pittsburg, and one for the Citizens Railway, Light & Power Co., Mansfield, O. The company has been obliged to increase this department of its business by the taking of the entire third floor of its new works, 2101-3111 Liberty St., to be exclusively devoted to the manufacture of oil filters. The greater part of the second floor will be devoted to holding a large stock of all sizes of the filters, this enabling prompt shipments.

THE ALLIS-CHALMERS CO., Chicago, reports over 50 sales of stone-crushing machinery in March, including orders from the following companies: Colorado Fuel & Iron Co., Bessemer, Colo.; Casparis Stone Co., Marble Cliff, O.; General Electric Co., Schenectady, N. Y.; The Gary Stone Co., Chicago; Clark & White, Ossinning, N. Y.; La Belle Iron Works, Steubenville, O.; Fisher & Haller, Delphos, O.; John Oak, Pringle, S. Dak.; Illinois Central R. R. Co., Chicago; George C. Mercer Stone Co., Bowling Green, O.; A. J. Wellington, Boston, Mass.; Con-

tractors' Supply Co., Chicago; Knickerbocker Ice Co., Chicago; B. Lantry Sons, Watrous, N. Mex.; Susquehanna Stone Co., Loyalsock Siding, Pa.; The McCoy Lime Co., Bridgeport, Pa.; White Marble Lime Co., Manistique, Mich.; Knox, Schlapp & Co., Ltd., Melbourne, Australia.

THE NATIONAL PORTLAND CEMENT CO., Durham, Ont., is claimed to be the first Canadian cement company to use electricity for operating its plant. All of the cement making machinery in this plant will be driven by induction motors supplied with current by two Westinghouse 450-K-W. three-phase alternators. These machines are of the engine type with revolving fields and run at 125 revs. per min., 3,000 alternations and 600 volts. Two exciting units are provided, one consisting of a 62½-K-W., 125-volt, engine-type, direct-current generator, direct-connected to an automatic engine, and the other of a 56½-K-W. machine coupled to an induction motor. The output of the exciters will be used not only for exciting the fields of the alternating current generators, but also for arc and incandescent lighting throughout the works and grounds. The Westinghouse company also furnishes the 8-panel switchboard and instruments.

MERRITT & CO., Philadelphia, report that they are doing a great deal of expanded metal fireproofing this season. Work is well under way upon the Bartlett building and Young's Hotel, Atlantic City N. J., both of which will be fireproofed throughout with expanded metal. They have just completed expanded metal and concrete floors in Gayley Laboratory, Lafayette College, Easton, Pa., and have the contract for the fireproofing of the new public library in that city. They are also doing the metal furring and expanded metal lathing in the new public library at Washington, D.C., and similar work in the Colonial Trust Co. building, Reading, Pa., and have the contract for fireproofing the new Masonic Temple at Reading, Pa., and the Bell Telephone Co. building, Philadelphia.

THE INTERNATIONAL SPRINKLER CO., Philadelphia, reports recent contracts with the following: B. F. Keith's new theatre, Jacob Miller Sons & Co., S. S. White Dental Mfg. Co., Otto Gas Engine Co., Hensel-Colloday Co., Gustao Berger, all in Philadelphia; Penn Steel Castings & Machine Co., Chester, Pa.; H. F. Watson & Co., Erie, Pa.; Ansonia Brass & Copper Co. and Coe Brass Mfg. Co., Ansonia, Conn.; Coe Brass Mfg. Co., Torrington, Conn.; Botany Worsted Mills, Passaic, N. J.; Lehigh Valley Silk Mills, South Bethlehem, Pa.; Bloomsburg Silk Mills, Bloomsburg, Pa.; Benedict & Burnham Co., Waterbury, Conn.; Johnson & Johnson, New Brunswick, N. J. The Evans dry pipe valve, made by the above company, has been universally approved by stock insurance boards and companies, and is accepted by the New England Mutual Fire Insurance companies. Electrical alarms or mechanical water motor alarms, either or both, can be furnished with these valves. Alarm valves are also supplied.

THE SHERWIN-WILLIAMS CO., Cleveland, has just completed its new linseed oil plant and will begin crushing seed next month. This company has for many years been probably the largest consumer of linseed oil in the world and has done its own refining. The present plant is of the very latest type and will enable the company to sell oil to others as well as make what is required for its own use. It has its own steamship for carrying the seed from the farmer to Cleveland. The company makes all its own varnishes and dry colors, tin cans, packing cases and barrels; does its own printing and manufactures its machinery in its own machine shops. A few years ago it added a steam laundry, a barge for carrying the lumber for its box factory, and enlarged its facilities for the manufacture of varnish and dry colors so as to be able to market these two products as well as to make them for its own use. The company has plants at Cleveland, Chicago, Newark and Montreal, with warehouses and offices in seven other cities. J. W. Daniels, formerly a director of the American Linseed Oil Co. and manager of its Buffalo plant, is in charge of the new plant of the Sherwin-Williams Co.

THE HAZLETON BOILER CO., Rutherford, N. J., has a large number of contracts on hand, including orders from the Brooklyn Union Gas Co., Brooklyn, N. Y., for five boilers of 1,000 HP.; an additional special boiler of 235 HP. for the North Adams (Mass.) Gas Light Co.; three additional boilers, 750 HP., for the Farrel Foundry & Machine Co., Ansonia, Conn.; a 250-HP. boiler for the Brookline Gas Light Co., Allston, Mass., making 1,000 HP. of Hazelton boilers bought by that company; a 400-HP. boiler for the Apsley Rubber Co., Hudson, Mass.; two 100-HP. boilers for the Alabama Tube & Iron Co., Helena, Ala.; three 450-HP. for the Carlton Paper Mills, Passaic, N. J.; 150-HP. boiler for the Meriden (Conn.) Electric Light Co., making 600 HP. in all for this company, and several orders for China and other foreign countries. We are informed that the United Electric Light Co., Springfield, Mass., has 1,800 HP. of Hazelton boilers, which are to be reset in 200 or 300-HP. units in the brick-lined steel setting lately introduced by the Hazelton Boiler Co., which is claimed to be a distinct advance over the old-time brick-work setting. The boilers will be arranged in batteries with square furnaces. Seven boilers at the Springfield plant occupy but 800 sq. ft. of floor space.

NEW COMPANIES.—Loudoun Electric Light & Power Co., Leesburg, Va.; $10,000; Beverly Chichester.

Winkley Engineering Co., Kittery, Me.; $25,000; Albert E. Knowlton; Herbert M. Fowler, Charles C. Smith.

F. Ferguson & Son, 1122 Clinton St., Hoboken, N. J.; machinery, tools, etc.; $50,000; Fergus M. Ferguson, John Ferguson, Margaret Ferguson.

Boston Steel & Iron Co., 765 Broad St., Newark, N. J.; manufacture steel, iron, etc.; $1,000,000; E. M. Mable.

Columbia Engineering Works, Brooklyn, N. Y.; $150,000; Donald McNeil, John McNeil, Jonathan Moore.

Farmers' Home Telephone Co., Shelton, Neb.; $10,000; William J. Smith, Albert Allen, Jacob Steerley.

Harrington Construction Co., St. Paul, Minn.; $100,000; Charles E. Harrington, Chicago, Ill.; Charles H. Petsch, St. Paul, Minn.; John Graham, Minneapolis, Minn.

American Portland Cement Co., Denver, Colo.; $250,000; S. Davis, S. K. Paxton, John Wyss.

Consolidated Ditches Co., Fort Lupton, Colo.; $50,000; John S. McClare, F. A. Meredith, G. Clark.

San Miguel River Ditch Co., Montrose, Colo.; $150,000; O. C. Springer, W. Vandegrift, B. L. Smith.

The Mark Equipment Co., Chicago, Ill.; railway equipment and materials; $2,500; C. E. Mark, R. P. Mark, F. Floyd Mark.

The Neches Equipment Co., Beaumont, Tex.; $100,000; manufacture and repair railway cars; A. C. Terry, Chicago; E. A. Sterling, Beaumont; George W. Waters, San Antonio.

National Machinery Co., 5 West State St., Trenton, N. J.; $450,000; August A. Rohn, Lewis Selle, Amandus Betts, Tiffin, O.

Patopsco Electric & Manufacturing Co., Ellicott City, Md.; $200,000; Thomas Van Loan, New York.

Union Gas Co., Lincoln, Neb.; $750,000; R. F. Call, W. Irving, Chicago, Ill.

Aurora Waterway & Power Co., Aurora, Ore.; $100,000; W. S. Hurst, B. F. Giesy.

Tomah Electric & Telephone Co., Tomah, Wis.; $25,000; C. W. Croty, Wm. B. Naylor, Jr.

Western Lighting Co.; $500,000; W. M. Greene, N. R. Vanderhoff, Jersey City, N. J.

Moravia Electric Co., Moravia, N. Y.; $10,000; Wm. J. H. Parker, F. C. Reynolds.

Mexican Development & Const. Co., of Oshkosh, Wis.; $50,000; W. K. Rideout, T. R. Morgan.

Bay City Engineering & Supply Co., San Francisco, Cal.; $40,000; H. K. Moulthrop, San Francisco; Wm. Fulton, San Leandro, Cal.

Farnam Cheshire Lime & Cement Co., New York; $350,000; A. S. Farnam, Cheshire, Mass.; C. S. Keyes, Brooklyn.

Frontier Mfg. Co., Niagara Falls, N. Y.; $70,000; Carl Steinbrenner, Walter Binkley, Niaraga Falls.

Am. Coal & Coke Co.; $10,000,000; Chas. E. Wellborn, Weston, N. J.; Chas. B. Hall, Cedarhurst, N. Y.

Chattanooga Bridge Co., Chattanooga, Tenn.; $100,000; Wm. M. Hewitt, G. C. Steward.

Storm Railway Signal Co., Waterloo, Ia.; $60,000; C. O. Balliett, C. B. Campbell.

The National Telegraphone Co., $2,000,000; Edmund L. Grannel, Geo. E. Milligan, Carthage, N. Y.

Lake Erie Dredging Co., Buffalo, N. Y.; $150,000; Mary E. Hingston, V. A. Woods, W. R. Pooley, Buffalo.

St. Croix Land & Water Power Co.; $500,000; F. N. Jordan, Pownal, Me.; H. H. Jordan, Calais, Me.

General Const. Co., 15 Exchange Pl., Jersey City, N. J.; $100,000; Evan J. Dudley, John I. Billings.

Western Alaska Const. Co., 419 Market St., Camden, N. J.; $125,000; J. A. Fruend, Sam'l P. Herron.

Schooley-McClure Co., 419 Market St., Camden, N. J.; railway supplies; $15,000; H. O. Murphy, H. B. McClure.

Enterprise Telephone Co., Bellaire, O.; $25,000; Robt. McKelvey, Theo. Neff.

Territorial Constn. Co., 243 Washington So., Jersey City, N. J.; $1,000,000; Adrain H. Larkin, Mountfort Mills.

British Am. Dredging Co., Camden, N. J.; $2,000,000; O. T. Switzer, Sam'l A. Chase, Wm. J. Robinson.

Bush Engine Co., 525 Main St., East Orange, N. J.; $5,000,000; Edw. T. Magoffin, Frank R. Serles, Alfred G. Brown.

Essex & Hudson Contracting Co., 30 Plane St., Newark, N. J.; $100,000; Jas. E. Bathgate, Jr., Edw. A. Van Wagenen.

M. P. Roche Co., 164 Market St., Newark, N. J.; contractors; $100,000; M. P. Roche, B. S. Klotz, M. MacLean.

Texas Telephone Co., Texarkana; $150,000; F. M. Marriott, Delaware, O.

Toledo Asphalt Co., Toledo, O.; $20,000; Chas. R. Clapp, Herman Merriman., Toledo, O.

The Trenton Heat & Power Co., Trenton, N. J.; $500,000; Edward Murray, Chas. A. May, Chas. H. Baker.

Portland Smelting & Refining Corporation, Portland, Ore.; $2,000,000; O. M. Rosendale, Frank F. Seagast, A. C. Sandford.

Sparta Electric Light & Power Co., Sparta, Tenn.; $3,000; J. H. Eagle, W. T. Smith.

Citizens' Electric Co., Waukegan, Ill.; $5,000; Fred. Barstow, A. L. Hende.

Keyser Gas, Light & Mineral Co., Keyser, W. Va.; $100,000.

Manila Electric Co., No. 15 Exchange Pl., Jersey City, N. J.; $125,000; Peter L. Kimberly, Martin B. Delong.

Oklahoma Gas & Electric Co., Oklahoma City, Okla. T.; $500,000; Geo. W. Wheeler, Henry W. Rule.

Wellston Gas, Water & Power Co., Wellston, Mo.; $100,000; J. M. Nelson, Jr., William Hoeber.

People's Light & Power Co., Muscatine, Ia.; $50,000; W. L. Roach, J. L. Giesler.

East St. Louis Gas Co., East St. Louis, Ill.; $50,000; H. Maguire, H. C. Wood.

Oneonta Light & Power Co., Oneonta, N. Y.; $175,000.

Speedwell Excavator Co., Portland, Ore.; $20,000; A. S. Pattullo, R. K. Warren.

Spencer Auto Vehicle Co.; $200,000; S. L. Larrabee, Portland, Me.; W. F. Rogers, New York.

Waltham Auto Car Co.; $150,000; S. L. Larrabee, Portland, Me.; M. B. King, Waltham, Mass.

Mo. Bridge & Iron Co., St. Louis; $30,000; John T. Garrett, James Garrett, Curtis Hill.

Kent Machine Co., 15 Exchange Pl., Jersey City, N. J.; $200,000; Wm. S. Walbridge, Henry E. Bodman.

Heinze Electric Co.; $50,000; President, Butler Ames, Lowell, Mass.

Cuming County Independent Tel. Co., Wisner, Neb.; $25,000; Geo. F. Kenower, H. D. Daily, J. H. Emley.

Texas Press Brick Co., Mexia; $20,000; J. M. Long, C. J. Kauhl, M. E. Roberts.

000; John Eagle, J. L. Dibrell.

Moosehead Case & Power Co., $50,000; V. W. McFarline, A. E. Baxter, Greenville, Me.

Lancaster Valley Electric Light Co.; $60,000; F. E. Bailey, Pittsburg, Pa.; S. N. Bailey, Dillsburg, Pa.

Electric Light, Steam Heat & Power Co., Bellefonte, Pa.; $1,000.

Detroit Arc Gas Light Co., Detroit, Mich.; $100,000; James T. Lynn, George W. Miller.

Washington Light & Water Co., Washington, N. C.; $20,000; S. J. Springs, Geo. T. Leach.

Wisconsin Heat, Power & Light Co., Racine, Wis.; $25,000; Martin Clancey, C. M. Dietrich.

Niagara River Power & Water Supply Co., Niagara Falls, N. Y.; $5,000,000; J. S. Simmons, Geo. W. Knox.

California Gas Co., Pomona, Cal.; $100,000; Wm. Dieterle, J. A. Simmons.

Haileyville Electric Light & Ice Co., Haileyville, I. T.; $50,000; D. M. Hailey, L. W. Bryan.

Maxim Building Co., Newcastle, Ind.; $25,000; Charles W. Mouch, J. W. Maxim, Frank Bundy.

NOTICE TO READERS.—Although every possible effort is made to verify the reports of new construction before their publication in the Supplement, complete verification is not always possible. When it becomes necessary to publish news whose accuracy has not been verified, the words "according to reports," "it is stated," or other expressions of similar import are attached to the items. We will be obliged to our readers if they will send us particulars of any work in which they may be interested, and also to call our attention to any important errors that may be noticed in these columns, and give us the correct details. When writing to persons and companies mentioned in this department, our readers will confer a favor by mentioning Engineering News as the source of their information.

Experience as a Teacher.

The Burlington, Iowa, "Hawkeye" claims that the recent advertising for bids for electric lighting will result in a saving to the city of 30% and to private consumers of 25%. Its statement is as follows:

ADVERTISING PAYS.

Money Saved by New Lighting Contract

Advertising pays. For a proof of this statement, if such proof were needed, see the new contract for city lighting. * * * The good citizens who insisted that the council should advertise for bids, knew whereof they spoke. The results are even greater and more valuable than the advocates of advertising anticipated. Burlington gets a reduction of 30 per cent. in the cost of its electric lights, which means that a large area which up to the present has not been sufficiently lighted, will, in the near future, be well illumined. And the private consumers will get the benefit of a 25 per cent. reduction in their lighting bills—which will surely be appreciated by all.

The proposal advertisement for the above was published for three weeks in ENGINEERING NEWS. Whether the satisfactory result was attained by this or other advertising cannot be stated, but such advertisements in ENGINEERING NEWS cost very little, and we know that when they are inserted in this paper the results are invariably satisfactory.

Mail Delivery Notice.

The first pages of Engineering News go to press on Monday each week, and the last pages, including "Wants," "Proposals" and "For Sale" cards, about Wednesday noon. All papers for Boston, Philadelphia, Washington and Greater New York should be received **Thursday morning.** All places East of the Mississippi should be reached by Friday afternoon.

If your paper is not received promptly, make a complaint in writing to your local post-office officials. This will cause an investigation, and the complaint will finally reach the office where the delay occurs.

Do You Want to Purchase Supplies?—All the Prominent Manufacturers Read Engineering News.

ADVERTISE FOR BIDS IN THIS PAPER AND SECURE DESIRABLE COMPETITION.

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